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ABSTRACT

This report presents data compiled from the 117 libraries that were members of the Association of Research Libraries (ARL) during the 1982/83 academic year, as well as an examination of data for trends in expenditures for the previous 15 years from the 75 academic libraries that were members throughout those years. Information includes data from four libraries that joined ARL in 1982-83: Delaware, Georgia Institute of Technology, and North Carolina State, and the non-university Canada Institute for Scientific and Technical Information. A guide to library code numbers provides a complete list of ARL members. Research library resources, staffing, expenditures, and interlibrary loan activity are covered in the report's data tables. Further report sections include an analysis of selected variables; Ph.D. and enrollment statistics; the ARL Library Index, a summary of rank order tables for ARL university libraries; and the rank order tables for volumes in library, volumes added (gross), microform holdings, current serials, professional staff, nonprofessional staff, total staff, materials expenditures, materials and binding expenditures, salaries and wages expenditures, total operating expenditures, total items loaned, total items borrowed, and current serials expenditures. A copy of the ARL Statistics Questionnaire is included. (LMM)

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ARL STATISTICS

1982-83

A COMPILATION OF STATISTICS FROM THE ONE HUNDRED AND SEVENTEEN MEMBERS OF THE ASSOCIATION OF RESEARCH LIBRARIES

Compiled by
Carol A. Mandel
and
Alexander Lichtenstein

ASSOCIATION OF RESEARCH LIBRARIES
WASHINGTON, D.C.
1984

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INTRODUCTION

The 1982-83 ARL Statistics presents data compiled from the 117 research libraries that were members of the Association during the 1982-83 fiscal year. Four libraries joined ARL in 1982-83: three university libraries--Delaware, Georgia Institute of Technology, and North Carolina State--and one non-university library--the Canada Institute for Scientific and Technical Information. Reports from these libraries are included in the Statistics for the first time this year. With these additions the ARL membership consists of 104 university libraries and 13 public, governmental, and private research collections. A complete list of ARL members is provided in the "Guide to Library Code Numbers," page 9a.

The tables presented in the Statistics describe research library resources, interlibrary loans, expenditures, and staffing in fiscal 1983, as well as university enrollments, Ph.D.'s awarded, and Ph.D. fields. To obtain a longer perspective on expenditure trends in the ARL, an analysis was performed on data for the past 15 years from the 75 academic libraries that have been members throughout these years. William Baumol has recently described the unfortunate impact on libraries of the continuing inflation of the 1970's and 1980's.[1] "Per unit expenditures, rather than outpacing the rate of inflation, have tended to lag behind it, so that in terms of dollars of constant purchasing power the unit costs* of these [library] services have actually fallen." This concept is illustrated by the data in the following table.

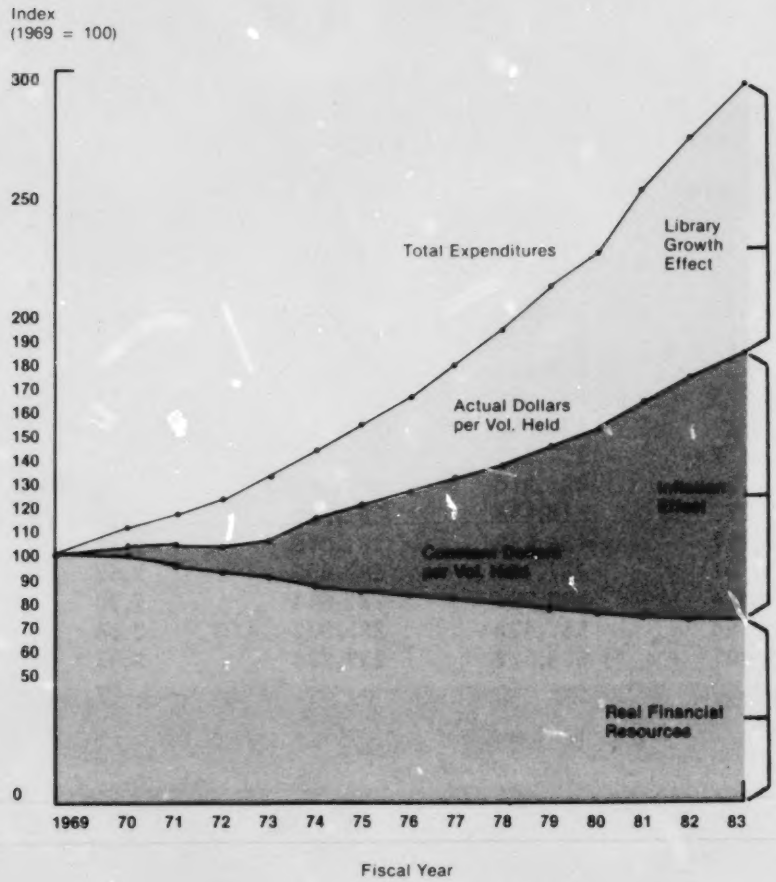
Fiscal Year	(1) Volumes Held (in 1,000's)	(2) Total Library Expenditures Actual Dollars (in 1,000's)	(3) Total Library Expenditures, Constant Dollars in 1972 Prices (in 1,000's)	(4) Actual Dollars per Volume Held	(5) Constant Dollars per Volume Held in 1972 Prices
1969	129,017	$212,598	$249,256	$1.65	$1.93
1970	136,658	237,432	264,892	1.74	1.94
1971	142,922	248,594	264,670	1.74	1.85
1972	148,329	256,658	261,964	1.73	1.77
1973	155,851	278,438	270,439	1.79	1.74
1974	160,823	303,685	274,122	1.89	1.70
1975	166,977	330,593	272,814	1.98	1.63
1976	171,812	357,157	274,175	2.08	1.60
1977	177,124	382,916	277,261	2.16	1.57
1978	182,877	416,818	281,225	2.28	1.54
1979	189,417	456,632	284,058	2.41	1.50
1980	193,101	487,195	281,652	2.52	1.46
1981	198,074	534,786	282,664	2.70	1.43
1982	203,756	587,423	288,027	2.88	1.41
1983	209,907	636,572	297,234	3.03	1.42

*Note: Baumol uses the terms "costs" and "expenditures" somewhat interchangably here.

During the past 15 years the actual dollars spent by ARL university libraries (column 2) have increased by almost 200%, from $212,598,000 in 1969 to $636,572,000 in 1983. At the same time the economy's overall rate of inflation has risen by about 150% in the U.S. and 211% in Canada.[2] As a result, in dollars of constant (1972) purchasing power, adjusted for inflation (column 3), ARL library expenditures rose only from $249,256,000 to $297,234,000—an increase of just 19%.

Research libraries have not been static during the 15 years, however. Their needs have outpaced the dollars available to them, as we can see by looking at expenditures per unit of library operation. Baumol uses volumes held as a convenient measure of units of operation. Indeed, previous ARL studies have demonstrated the high correlations between volumes held and materials acquired, personnel, and expenditures: the more volumes a research library has, the more materials it acquires, the larger its staff, and the more expensive its operations. Total expenditures per volume held are

Trends in ARL Library Total Expenditures: Amount and Dollar per Volume Held in Actual and Constant Dollars, Fiscal Years 1969-1983



therefore a useful index of costs in ARL libraries. The data in column 4 show that in actual dollars ARL libraries were spending $1.65 per volume held in 1969 and $3.03 in 1983--an increase of 84%. In dollars of constant buying power (column 5), however, per unit expenditures have dropped 26%, from $1.93 to $1.42. As Baumol says, the expenditures per unit of ARL libraries have declined, as they have been forced "to adopt cutbacks in service, reduce the real compensation of their staffs, and even skimp on quality."

We can look at this matter in a slightly different way through the graph on page 6, which is modeled after a graph in a recent study by D. Kent Halstead.[3] Here the data from the table are converted to index numbers, with 1969 expenditures equal to 100, in order to display the percentage changes over 15 years. The top line shows how total ARL library expenditures have increased about 200%. This is an annual compounded rate of 8%. The actual dollars per volume held have risen 84%, or about 5% each year. Finally, constant dollars (adjusted for inflation) per volume held have been decreasing 2% per year, for a total decrease of 26%. In other words, since 1969 the purchasing power per unit of operation of ARL libraries has been declining by 2% each year.

The index number for constant dollars per volume now stands at about 74, 26% below its level of 100 in 1969. Inflation of 150% in the U.S. and 211% in Canada has driven up prices so that the index for actual dollars spent per volume stands at 184, or 84% above its 1969 level. Finally, ARL library size and resources deployed, as measured by volumes held, increased 63% in 15 years. This 63% rise in units of operation further increased total expenditures in actual dollars to an index figure of about 300, 200% above their level in 1969. Thus, even though ARL libraries are spending 200% more actual dollars today than in 1969, a "Library Growth Effect" and an "Inflation Effect" have combined to make their real financial resources, as measured by constant dollars per volumes held, 26% fewer than in 1969 (see graph). Not only has the 200% increase in total outlays been completely absorbed by inflation and library growth; but in terms of per unit expenditures ARL libraries today have only three-quarters of the real buying power that they had 15 years ago.

It is also informative to look at resources for libraries in the context of recent trends in higher education. Just as volumes held have been used as an index of units of operation, student enrollments can be used as a different measure. Enrollments in ARL universities increased 17% in 15 years. The actual library expenditure per student was $167 in 1969 and $430 in 1983—an increase of 157%. In constant dollars, however, the expenditure was $198 in 1969 and $204 in 1983—an increase of only 3%. It is worth noting that up through 1982 constant dollars per student were below 1969 levels. For almost all of the 15-year period, therefore, the buying power of ARL libraries in support of university students has stayed more or less the same. Or in Halstead's terms, for ARL libraries the real financial resource of dollars spent per student has remained constant.

This rather disheartening picture of long-term trends may be modified somewhat by some short-term changes in ARL data.[4] For the second year in a row the increase in expenditures for current serials was less than in past years: an 8.8% increase in 1983 and 7.0% in 1982, as compared with an annual compounded rate of 14.0% for the preceding six years. At the same time expenditures for monographs and other non-serial materials rose 10.6% in 1983 and 12.8% in 1982, but an average 4.4% for each of the previous six years. As a consequence of these changes, serials expenditures have dropped from a high of 58% of total materials expenditures in 1981 to 56% in 1983.

In regard to material resources, 1983 is notable as the first year since the mid-seventies when ARL libraries added substantially more volumes than in the preceding year. Gross volumes added had been decreasing by an average 2.7% per year from 1976 through 1982. But in 1983 volumes added rose 7.4%.

There is some light in the 1983 data; but whether it is the light at the end of the tunnel, time will tell.

Those using the ARL Statistics to compare individual institutions will need to consult the symbols indicated in the "ARL Library Data Table" and the "Footnotes." Although definitions used in the Statistics questionnaire are aimed at achieving consistency, variant reporting practices do exist among ARL libraries. For example, the majority of ARL libraries include government documents in their count of serials subscriptions, but about one-third do not. Some ARL libraries catalog government documents and report them in their volume count; others do not. Symbols are used to indicate which ARL libraries include law and medical libraries in their reports. Separate counts of the holdings of law school libraries are published each year in the spring issue of Law Library Journal. Similar statistics for U.S. and Canadian medical school libraries are published annually by the Association of Academic Health Sciences Library Directors. To aid comparability, expenditures of Canadian libraries are expressed in U.S. dollars in the ARL Statistics; the exchange rate used for 1982-83 is 1.2349 Canadian dollars to one U.S. dollar.[5]

The rank order tables and index scores presented in this publication are not intended to imply qualitative evaluations of the institutions described. In comparing any individual library to ARL medians or to other ARL members, one must always make evaluations within the context of local goals and characteristics.

Kendon L. Stubbs
University of Virginia Library
December 19, 1983

References:

1. William J. Baumol and Sue Blackman, "Electronics, the Cost Disease, and the Operation of Libraries," Journal of the American Society for Information Science 34:181-191 (May 1983). Our data differ from Baumol's because we use the same sample of libraries over 15 years. Baumol used the medians of the current ARL membership for each year. As the membership grew and smaller libraries joined ARL, the medians declined relatively. Thus, the percentage increases in Baumol's data are lower than those for our sample.

2. We follow Baumol in using as measures of inflation the U.S. and Canadian Gross National Product Implicit Price Deflators, with calendar year 1972 equal to 100. This index is more useful as an indicator of rises in the general price level than the Comsumer Price Index, which measures the changing prices of a typical "market basket" of consumer goods. Nevertheless, the GNP Implicit Price Deflator underestimates the inflationary forces at work on research libraries. About one-third of their expenditures are for books and serials, the prices of which have increased more than the increases measured by the GNP Deflator, the CPI, or even the Higher Education Price Index. Halstead (see ref. 3) points out that the prices of books and serials have risen faster than any other major component of the Higher Education Price Index, except energy costs and fringe benefits. Consequently, inflation took an even greater toll on research libraries than is shown here.

3. D. Kent Halstead, Inflation Measures for Schools and Colleges (Washington: National Institute of Education, 1983), pp. 37-50, esp. p. 46.

4. For this analysis we use the 90 libraries which have been ARL members since at least 1976 and which have not had gaps in their data.

5. The rate used is the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1982-June 1983. Expenditures as reported in Canadian dollars are given in the "Footnotes" to the ARL Statistics.

GUIDE TO LIBRARY CODE NUMBERS

GUIDE TO LIBRARY CODE NUMBERS

The institutions listed below are the 113 institutions that were members of the Association of Research Libraries in 1982. Each has been assigned a code number for use on the data tables on pages 8-17 in place of the names of the institutions. (See columns labeled "Library Code No." to the left of columns 1 and 12). Numbers 1-101 have been used to designate the 101 university library members of the Association. Numbers 102-113 designate the 12 nonuniversity members.

1. Alabama
2. Alberta
3. Arizona
4. Arizona State
5. Boston
6. Brigham Young
7. British Columbia
8. Brown
9. Calif., Berkeley
10. Calif., Davis
11. Calif., Irvine
12. Calif., Los Angeles
13. Calif., Riverside
14. Calif., San Diego
15. Calif., Santa Barbara
16. Case Western Reserve
17. Chicago
18. Cincinnati
19. Colorado
20. Colorado State
21. Columbia
22. Connecticut
23. Cornell
24. Dartmouth
25. Delaware
26. Duke
27. Emory
28. Florida
29. Florida State
30. Georgetown
31. Georgia
32. Georgia Tech
33. Guelph
34. Harvard
35. Hawaii
36. Houston
37. Howard
38. Illinois
39. Indiana
40. Iowa
41. Iowa State
42. Johns Hopkins
43. Kansas
44. Kent State
45. Kentucky
46. Louisiana State
47. McGill
48. McMaster
49. Manitoba
50. Maryland
51. Massachusetts
52. MIT
53. Miami
54. Michigan
55. Michigan State
56. Minnesota
57. Missouri
58. Nebraska
59. New Mexico
60. New York
61. North Carolina
62. North Carolina St.
63. Northwestern
64. Notre Dame
65. Ohio State
66. Oklahoma
67. Oklahoma State
68. Oregon
69. Pennsylvania
70. Pennsylvania State
71. Pittsburgh
72. Princeton
73. Purdue
74. Queen's
75. Rice
76. Rochester
77. Rutgers
78. Saskatchewan
79. South Carolina
80. Southern California
81. Southern Illinois
82. Stanford
83. SUNY-Albany
84. SUNY-Buffalo
85. SUNY-Stony Brook
86. Syracuse
87. Temple
88. Tennessee
89. Texas
90. Texas A & M
91. Toronto
92. Tulane
93. Utah
94. Vanderbilt
95. Virginia
96. Virginia Polytechnic
97. Washington
98. Washington State
99. Washington Univ., St. Louis
100. Wayne State
101. Western Ontario
102. Wisconsin
103. Yale
104. York
*105. Boston Public Library
*106. Canada Inst. of Tech.
*107. Center for Research Libraries
*108. John Crerar Library
*109. Library of Congress
*110. Linda Hall Library
*111. National Agricultural Library
*112. National Library of Canada
*113. National Library of Medicine
*114. Newberry Library
*115. New York Public Library
*116. New York State Library
*117. Smithsonian Institution

*Nonuniversity library

ARL Library Data Table

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
1 +GLM	1,511,340	41,437	38,205	1,096,010	12,976	3,424	2,679	6,103	2,030	1,796	3,826
2 +GLM	2,316,560	88,842	85,367	1,635,707	14,605	4,847	7,625	12,472	3,159	4,203	7,362
3 +LM	2,853,707	117,601	112,265	2,479,283	32,105	12,089	21,386	33,475	3,151	3,032	6,183
4 +L	1,830,329	92,452	72,889	1,645,818	22,422	7,623	8,246	15,869	6,352	8,438	14,790
5 +LM	1,449,992	64,566	54,028	1,951,136	25,416	2,229	3,324	5,553	2,449	4,843	7,292
6 +	1,625,278	67,754	51,178	1 025,393	16,318	2,882	2,494	5,376	2,967	4,711	7,678
7 +LM	2,262,210	124,309	91,654	2,687,722	33,815	8,739	8,518	17,257	2,826	4,267	7,093
8 +bG	1,847,736	43,367	42,754	778,595	14,579	2,039	3,362	5,401	2,550	1,329	3,879
9 L	6,336,301	230,171	218,877	2,696,778	101,584	11,063	18,366	29,429	9,172	4,046	13,218
10 +bLM	1,827,150	86,582	73,937	1,829,939	46,480	8,593	21,616	30,209	2,882	2,887	5,769
11 M	1,068,363	60,540	44,845	1,177,864	15,301	7,803	4,488	12,291	3,642	4,487	8,129
12 +LM	5,744,144	157,008	150,780	2,695,219	80,908	10,390	28,572	38,962	6,427	2,258	8,685
13 +	1,121,512	47,709	46,389	917,757	14,228	3,406	2,196	5,602	3,133	4,986	8,119
14 +M	1,566,293	69,363	58,823	950,134	26,883	5,719	9,720	15,439	3,938	2,589	6,527
15 b	1,532,918	61,291	59,610	1,838,028	19,811	2,789	15,537	18,326	5,750	4,250	10,000
16 +GLM	1,432,425	25,518	21,756	479,012	13,461	19,275	38,384	57,659	3,753	4,446	8,199
17 +LM	4,688,361	130,629	122,770	911,979	50,233	3,253	20,898	24,151	2,952	766	3,718
18 GLM	1,371,023	42,626	40,265	1,615,364	18,445	N/A	N/A	27,278	N/A	N/A	9,734
19 +L	1,972,172	45,213	44,473	2,476,185	20,366	3,415	6,620	10,035	3,835	2,397	6,232
20 +	1,356,950	46,054	41,430	810,040	15,549	3,627	6,621	10,248	3,666	3,511	7,177
21 +LM	5,270,432	103,145	77,984	2,771,509	60,570	3,768	12,708	16,476	2,449	2,745	5,194
22 GLM	1,801,211	62,302	54,265	1,645,071	16,969	7,064	14,242	21,306	3,199	4,325	7,524
23 +L	4,516,717	126,398	116,441	2,953,693	55,094	7,016	12,535	19,551	2,555	3,066	5,621
24 +M	1,516,998	42,861	41,344	1,363,780	18,592	3,125	3,404	6,529	2,989	3,348	6,337
25	1,554,082	59,047	59,047	1,016,480	16,974	5,641	3,182	8,823	1,426	1,310	2,736

B - INCLUDES BRANCH CAMPUSES
G - GOVERNMENT DOCUMENTS NOT INCLUDED IN SERIALS COUNT
L - INCLUDES LAW LIBRARY
M - INCLUDES MEDICAL LIBRARY
N/A - NOT AVAILABLE
+ - SEE FOOTNOTES
b - BIBLIOGRAPHIC COUNT

ARL Library Data Table

	EXPENDITURES							PERSONNEL (FTE)			
LIBRARY CODE NO.	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
1	1,888,852	812,137	90,985	1,979,837	1,640,703	390,897	4,011,437	45	63	59	167
2	2,660,505	1,034,139	150,182	2,810,687	6,621,145	1,111,927	10,543,759	79	260	47	386
3	3,194,650	1,678,237	224,552	3,419,202	4,511,024	1,057,686	8,987,912	86	180	84	350
4	2,812,846	1,508,188	162,795	2,975,641	3,281,351	453,118	6,710,110	60	151	67	278
5	2,148,524	1,255,959	130,378	2,278,902	3,098,501	902,303	6,279,706	63	134	66	263
6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	71	63	175	309
7	3,153,525	N/A	138,966	3,292,491	7,664,149	985,356	11,941,996	111	310	53	474
8	1,716,489	843,563	130,012	1,846,501	2,688,839	1,051,464	5,586,804	66	98	48	212
9	4,313,694	2,248,788	599,206	4,912,900	11,554,736	2,080,657	18,548,293	145	302	219	666
10	3,637,044	1,830,305	304,150	3,941,194	4,959,402	851,816	9,752,412	68	179	53	300
11	2,375,238	1,135,934	188,869	2,564,107	3,169,348	418,970	6,152,425	47	89	69	205
12	4,960,478	2,254,754	565,013	5,525,491	10,554,410	2,730,225	18,810,126	163	256	148	567
13	1,596,356	775,232	114,033	1,710,389	2,442,049	451,371	4,603,809	32	84	32	148
14	2,515,033	1,210,721	234,579	2,749,612	4,246,766	958,705	7,955,083	55	159	53	267
15	2,321,075	1,064,917	202,441	2,523,516	4,226,207	712,057	7,461,780	54	139	60	253
16	1,242,712	853,602	74,662	1,317,374	2,259,056	460,187	4,036,617	63	72	36	171
17	2,504,372	1,353,392	223,385	2,727,757	4,711,380	1,328,663	8,767,800	72	149	80	301
18	2,256,060	1,331,243	137,124	2,393,184	4,108,150	740,545	7,241,879	69	134	74	277
19	1,839,710	1,115,363	120,082	1,959,792	3,062,593	357,203	5,343,588	43	94	49	186
20	1,213,803	770,000	80,129	1,293,932	2,245,844	413,509	3,953,285	42	75	30	147
21	3,325,112	1,896,788	352,806	3,677,918	8,256,261	1,479,460	13,413,639	140	276	119	535
22	1,837,211	1,290,171	94,721	1,931,932	3,260,193	505,076	5,697,201	60	75	56	191
23	3,744,400	N/A	249,103	3,993,503	6,719,577	1,749,358	12,462,438	139	253	78	470
24	1,578,641	1,114,611	56,323	1,634,964	2,083,648	653,674	4,372,286	37	105	30	172
25	2,085,967	946,576	115,070	2,201,037	1,842,834	328,932	4,372,803	36	91	29	156

ARL Library Data Table

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
26+GLM	3,261,222	84,246	78,580	1,055,627	29,667	6,094	16,905	22,999	3,028	1,822	4,850
27 +LM	1,789,395	58,408	53,204	1,174,764	17,032	11,114	11,765	22,879	2,442	2,665	5,107
28 LM	2,349,473	69,272	63,528	2,348,774	24,563	2,816	17,883	20,699	2,292	8,598	10,890
29 +bL	1,448,753	35,293	35,140	2,388,395	15,935	5,854	5,864	11,718	2,923	1,432	4,355
30 +GLM	1,407,270	65,155	61,191	1,127,066	18,367	3,614	2,340	5,954	1,427	2,623	4,050
31 +L	2,226,090	84,473	84,473	2,787,338	45,126	10,358	15,189	25,547	3,189	1,808	4,997
32 +	1,661,559	116,017	92,853	1,737,597	24,754	2,422	11,955	14,377	973	1,023	1,996
33 +bG	1,408,433	68,111	67,683	801,998	9,345	921	2,441	3,362	1,925	3,500	5,425
34 +LM	10,567,240	185,225	158,012	3,021,292	99,500	5,426	27,027	32,453	2,820	2,905	5,725
35 +G	1,914,846	79,591	62,033	1,536,824	33,889	3,045	8,050	11,095	1,172	1,346	2,518
36 +GL	1,360,084	67,737	48,910	2,115,795	16,375	3,621	4,061	7,682	1,965	2,841	4,806
37 LM	1,315,753	74,781	73,200	1,420,593	25,078	1,624	978	2,602	541	703	1,244
38 GL	6,411,948	176,095	169,333	1,978,782	93,913	84,888	42,582	127,470	61,237	6,812	68,049
39 +L	4,105,734	139,064	112,322	1,267,234	28,346	12,943	18,650	31,593	5,041	2,886	7,927
40 +LM	2,494,680	87,282	82,103	2,074,442	30,633	6,367	25,387	31,754	2,873	2,867	5,740
41	1,498,279	55,590	50,929	1,394,705	20,098	6,582	11,804	18,386	2,649	1,913	4,562
42 +GM	2,393,572	54,996	44,531	1,070,066	18,097	6,344	8,911	15,255	7,145	7,416	14,516
43 +GLM	2,323,678	72,575	71,761	1,272,088	28,487	17,234	14,208	31,442	9,392	6,900	16,292
44 +	1,484,183	49,581	46,726	958,194	8,718	3,177	2,173	5,350	6,424	2,465	8,889
45 LM	1,894,632	49,749	40,544	2,555,680	35,050	5,339	10,291	15,630	3,261	4,866	8,127
46 +L	2,017,365	65,728	63,182	1,712,189	22,172	3,505	3,348	6,853	1,270	1,942	3,212
47 +bLM	2,188,662	67,439	61,977	567,008	14,419	6,674	20,395	27,069	5,104	2,460	7,564
48 +M	1,273,954	58,617	40,234	907,958	13,424	3,652	4,128	7,780	2,951	3,266	6,217
49 +GLM	1,293,852	49,287	42,775	644,772	10,795	7,841	4,151	11,992	2,172	4,476	6,648
50 +G	1,577,178	53,113	39,491	1,747,336	19,441	5,624	4,859	10,483	1,413	673	2,086

B - INCLUDES BRANCH CAMPUSES
G - GOVERNMENT DOCUMENTS NOT INCLUDED IN SERIALS COUNT
L - INCLUDES LAW LIBRARY
M - INCLUDES MEDICAL LIBRARY
N/A - NOT AVAILABLE
+ - SEE FOOTNOTES
b - BIBLIOGRAPHIC COUNT

ARL Library Data Table

	EXPENDITURES							PERSONNEL (FTE)			
LIBRARY CODE NO.	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
26	2,700,586	1,530,357	169,952	2,870,538	4,302,483	528,352	7,701,373	90	174	77	341
27	2,114,835	1,136,399	113,597	2,228,432	2,710,582	595,712	5,534,726	55	105	43	203
28	2,555,757	1,471,077	166,705	2,722,462	3,784,459	1,287,780	7,794,701	86	148	101	335
29	1,723,455	1,036,566	90,202	1,813,657	2,116,975	244,699	4,175,331	57	92	57	206
30	2,022,798	816,273	110,588	2,133,386	3,404,949	1,000,769	6,539,104	64	92	91	247
31	2,854,541	1,726,194	205,069	3,059,610	3,489,983	346,887	6,896,480	74	159	64	297
32	1,290,196	845,294	93,186	1,383,382	1,617,316	543,750	3,544,448	44	53	16	113
33	1,455,354	635,779	46,070	1,501,424	2,500,092	229,918	4,231,434	35	120	15	170
34	6,251,797	2,863,190	555,586	6,807,383	14,018,278	2,106,603	22,932,264	280	526	138	944
35	2,104,712	1,251,400	59,011	2,163,723	3,775,501	288,685	6,227,909	62	98	67	227
36	2,103,484	1,100,556	116,576	2,220,060	2,768,281	444,103	5,432,444	59	132	51	242
37	3,206,316	1,709,183	177,538	3,383,854	5,253,799	3,258,709	11,896,362	89	149	28	266
38	3,522,005	1,934,842	155,170	3,677,175	6,984,143	1,260,318	11,921,636	120	295	119	534
39	3,165,486	1,330,154	179,701	3,345,187	5,677,990	644,520	9,667,697	105	204	167	476
40	3,141,842	1,910,206	193,700	3,335,542	3,602,773	323,462	7,261,777	73	98	63	234
41	2,192,378	1,221,621	125,084	2,317,462	2,828,877	358,193	5,504,532	49	105	48	202
42	2,175,457	1,229,230	74,463	2,249,920	3,647,874	1,975,756	7,873,550	74	175	37	286
43	2,773,122	1,441,813	97,135	2,870,257	3,786,157	1,008,333	7,664,747	75	136	61	272
44	850,914	474,774	63,257	914,171	2,252,272	1,016,421	4,182,864	32	85	46	163
45	2,300,841	1,428,876	88,046	2,388,887	3,301,072	462,748	6,152,707	64	113	55	232
46	3,309,250	1,440,965	155,915	3,465,165	3,091,030	407,996	6,964,191	64	102	61	227
47	1,852,889	1,060,078	135,511	1,988,400	5,584,632	428,618	8,001,650	75	217	30	322
48	2,153,238	1,040,421	60,099	2,213,337	2,851,837	315,699	5,380,873	41	139	16	196
49	1,687,732	901,595	112,122	1,799,854	3,732,654	371,688	5,904,196	65	159	22	246
50	2,287,994	1,278,886	164,516	2,452,510	4,298,147	869,765	7,620,422	82	151	89	322

ARL Library Data Table

LIBRARY CODE NO	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
51 +	1,938,833	70,256	68,784	1,148,684	13,247	3,195	6,827	10,022	3,222	3,573	6,795
52	1,906,374	60,414	37,201	1,279,067	20,382	3,664	16,527	20,191	1,745	2,710	4,455
53 +LM	1,444,582	65,818	33,285	1,747,541	18,263	4,736	7,567	12,303	2,499	3,987	6,486
54 +LM	5,597,266	142,708	116,094	2,490,143	61,464	7,141	13,532	20,673	5,760	3,873	9,633
55 +G	2,898,698	103,774	91,867	1,871,763	20,002	1,320	5,520	6,840	1,818	2,172	3,990
56 LM	4,037,478	106,352	92,081	1,686,647	42,930	27,291	127,694	154,985	7,808	6,253	14,061
57 +LM	2,160,287	56,398	43,131	2,720,052	19,207	9,709	12,293	22,002	3,227	3,625	6,852
58 +	1,523,130	54,221	50,320	1,450,731	18,535	4,810	5,804	10,614	2,202	2,080	4,282
59 +G	1,126,047	49,502	39,518	2,043,551	9,317	4,364	2,055	6,419	2,304	1,570	3,874
60 +LM	2,756,470	60,479	57,599	1,676,461	28,390	4,030	5,064	9,094	2,218	5,339	7,557
61 +LM	2,952,859	121,501	113,001	1,845,576	40,157	7,772	11,163	18,935	2,085	2,089	4,174
62 +	1,092,724	49,441	44,744	1,952,167	16,616	4,955	19,031	23,986	1,638	1,568	3,206
63 +LM	2,973,100	103,280	83,698	1,278,889	32,970	4,233	6,348	10,581	5,164	2,815	7,979
64 +L	1,543,952	48,451	44,700	836,903	11,203	2,724	2,086	4,810	1,197	1,800	2,997
65 +LM	3,779,819	100,480	87,535	2,029,478	27,519	9,306	19,748	29,054	4,976	3,864	8,840
66 GLM	1,981,440	80,305	77,444	1,450,350	16,823	5,212	8,478	13,690	4,487	9,551	14,038
67 +	1,346,878	46,496	39,146	1,326,544	14,503	4,663	5,819	10,482	2,243	2,560	4,803
68 L	1,586,877	46,811	46,537	1,068,547	17,011	8,777	3,520	12,297	3,197	1,387	4,584
69 LM	3,120,976	79,247	66,742	1,522,668	31,687	4,050	4,644	8,694	4,904	3,392	8,296
70 +BG	2,402,938	138,885	129,958	2,493,017	23,335	5,719	7,710	13,429	4,825	4,051	8,876
71 +LM	2,472,489	83,864	65,862	1,713,068	20,094	8,426	19,964	28,390	3,524	2,339	5,863
72 +	3,519,262	95,131	89,020	1,603,912	32,910	3,927	3,177	7,104	2,862	1,404	4,266
73 G	1,538,062	56,022	34,964	1,334,465	16,846	1,217	7,563	8,780	2,348	2,816	5,164
74 +GLM	1,495,596	47,506	46,537	943,454	13,941	N/A	N/A	3,900	N/A	N/A	6,227
75 +b	1,146,577	37,450	36,780	1,424,884	10,862	4,316	6,210	10,526	911	923	1,834

B - INCLUDES BRANCH CAMPUSES
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ARL Library Data Table

	EXPENDITURES							PERSONNEL (FTE)			
LIBRARY CODE NO.	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
51	1,702,717	800,342	55,553	1,758,270	3,219,864	228,815	5,206,949	55	107	50	212
52	1,692,225	1,077,599	116,273	1,808,498	3,885,102	771,602	6,465,202	86	158	35	279
53	1,927,882	1,055,346	108,744	2,036,626	2,966,597	700,400	5,703,623	56	117	66	239
54	4,268,564	2,276,512	230,578	4,499,142	7,565,239	1,519,029	13,583,410	136	293	143	572
55	2,279,658	1,134,803	156,516	2,436,174	4,020,593	1,069,456	7,526,223	73	123	102	298
56	3,453,396	1,870,362	338,126	3,791,522	7,049,057	1,238,805	12,079,384	123	167	120	410
57	2,041,097	1,363,650	157,998	2,199,095	2,612,137	413,788	5,225,020	52	109	43	204
58	1,712,881	1,153,186	84,264	1,797,145	2,175,040	602,046	4,574,231	50	104	30	184
59	1,430,885	727,698	84,355	1,515,240	2,488,563	244,956	4,248,759	45	99	61	205
60	2,632,451	1,763,516	180,920	2,813,371	5,159,537	1,347,684	9,320,592	87	187	74	348
61	3,441,258	1,439,349	201,442	3,642,700	5,108,007	820,392	9,571,099	108	184	65	357
62	1,990,418	973,211	113,609	2,104,027	2,373,316	377,282	4,854,625	41	107	38	186
63	2,476,552	1,475,982	113,752	2,590,304	4,737,447	693,676	8,012,427	102	148	88	338
64	1,452,296	715,372	116,140	1,568,436	2,161,511	405,079	4,135,026	44	94	16	154
65	3,989,869	1,530,300	141,481	4,131,350	6,099,506	1,467,434	11,698,290	101	203	140	444
66	1,927,508	1,326,647	75,363	2,002,871	2,741,011	650,167	5,394,049	51	85	62	198
67	1,515,737	892,980	82,361	1,598,098	1,699,334	377,029	3,674,461	40	55	59	154
68	2,034,426	957,957	80,841	2,115,267	2,437,193	267,105	4,819,565	45	82	53	180
69	2,108,386	1,215,140	296,042	2,404,428	5,126,224	1,065,013	8,595,665	92	152	76	320
70	2,839,766	1,603,887	151,093	2,990,859	5,943,909	1,410,525	10,345,293	98	256	61	415
71	2,182,612	819,834	172,329	2,354,941	4,221,082	621,864	7,197,887	81	166	76	323
72	3,171,448	1,465,969	250,618	3,422,066	5,856,673	994,409	10,273,148	93	244	59	396
73	1,774,764	1,219,445	105,882	1,880,646	3,136,412	541,272	5,558,330	41	163	49	253
74	1,720,700	858,559	80,861	1,801,561	2,884,191	249,195	4,934,947	40	164	26	230
75	1,509,483	926,465	49,523	1,559,006	1,685,340	461,431	3,705,777	36	72	20	128

ARL Library Data Table

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
76 +GM	1,925,138	57,465	53,463	2,084,509	9,894	5,155	10,575	15,730	2,397	3,296	5,693
77 +BGM	2,083,310	99,269	59,095	1,672,761	21,910	4,801	16,570	21,371	2,438	4,394	6,832
78 +GLM	1,124,670	41,324	41,324	1,287,990	9,377	1,799	3,914	5,713	2,717	5,201	7,918
79 +LM	2,003,347	55,924	53,362	1,972,448	16,561	5,460	6,001	11,461	2,556	1,319	3,875
80 +LM	2,247,063	82,782	76,289	1,480,342	36,765	2,524	3,675	6,199	1,403	697	2,100
81 +L	1,756,367	44,422	40,154	2,194,039	19,709	20,177	12,890	33,067	2,595	1,952	4,547
82 +LM	5,040,940	163,099	146,400	2,606,866	46,572	7,412	11,021	18,433	3,887	2,851	6,738
83 +	1,062,495	36,168	34,552	1,966,142	15,660	6,571	6,906	13,477	4,146	6,990	11,136
84 +LM	2,181,241	64,353	43,300	2,550,694	22,933	4,518	14,915	19,433	2,929	3,700	6,629
85 +bM	1,374,100	54,065	52,822	1,930,265	18,463	5,307	10,439	15,746	2,514	2,618	5,132
86 +bL	2,065,873	67,750	55,864	2,181,160	21,232	1,790	1,103	2,893	2,981	1,863	4,144
87 +LM	1,742,595	47,672	44,785	1,085,089	14,881	4,084	3,921	8,005	1,970	1,859	3,829
88 +G	1,448,738	31,012	27,396	1,465,853	24,915	8,974	6,238	15,212	2,017	1,951	3,968
89 +L	5,057,649	177,633	158,655	2,859,799	61,133	8,852	5,623	14,475	5,523	2,714	8,237
90 +M	1,418,345	54,368	53,422	2,042,624	16,886	6,526	27,456	33,982	3,952	6,405	10,357
91 +GLM	4,856,750	202,440	67,010	1,754,949	42,941	9,697	7,005	16,702	3,127	4,051	7,178
92 +LM	1,478,003	51,889	50,637	1,362,036	14,155	N/A	N/A	7,565	N/A	N/A	6,360
93 G	2,045,797	38,542	30,135	1,942,337	14,299	5,087	3,682	8,769	4,389	3,448	7,837
94 +LM	1,517,038	48,995	38,548	1,080,357	15,941	7,173	5,202	12,375	3,071	1,691	4,762
95 GLM	2,550,064	91,553	83,311	2,859,945	25,021	4,607	2,172	6,779	2,176	513	2,689
96 +	1,391,736	60,210	56,757	3,434,127	21,336	4,995	10,201	15,196	1,750	1,576	3,326
97 +LM	4,168,079	140,418	77,267	3,910,104	39,476	26,298	66,863	93,161	2,976	1,406	4,382
98 +G	1,346,609	43,998	42,109	1,942,224	31,675	477	370	847	108	208	316
99 +LM	1,953,047	45,795	35,174	1,259,184	15,210	4,165	11,643	15,808	2,352	4,233	6,585
100 +bLM	1,941,348	42,601	37,141	1,324,228	14,448	5,741	26,860	32,601	932	2,051	2,983

B - INCLUDES BRANCH CAMPUSES
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L - INCLUDES LAW LIBRARY
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N/A - NOT AVAILABLE
+ - SEE FOOTNOTES
b - BIBLIOGRAPHIC COUNT

ARL Library Data Table

	EXPENDITURES							PERSONNEL (FTE)			
LIBRARY CODE NO.	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
76	1,807,481	1,074,587	101,076	1,908,557	2,843,403	527,451	5,279,411	60	92	63	215
77	2,560,961	1,790,384	251,210	2,812,171	6,597,629	788,982	10,198,782	96	230	65	391
78	1,721,078	1,032,472	53,446	1,774,524	2,818,865	292,663	4,886,052	42	114	19	175
79	1,555,760	758,884	103,775	1,659,535	2,508,741	753,340	4,921,616	63	110	30	203
80	2,820,361	1,717,069	124,515	2,944,876	4,486,352	928,774	8,360,002	85	136	94	315
81	1,763,527	1,232,542	106,677	1,870,204	3,573,302	565,369	6,008,875	60	104	88	252
82	4,631,057	2,293,307	289,323	4,920,380	10,823,140	2,453,964	18,197,484	150	347	69	566
83	1,555,223	1,110,562	51,000	1,606,223	2,276,725	413,496	4,296,444	49	97	24	170
84	2,264,228	1,499,924	135,610	2,399,838	3,872,521	772,127	7,044,486	91	136	60	287
85	1,929,767	1,187,676	76,320	2,006,087	2,605,288	415,378	5,026,753	48	114	47	209
86	1,809,504	1,029,495	85,000	1,894,504	3,127,613	1,128,317	6,150,434	65	135	62	262
87	1,478,626	1,043,131	90,687	1,569,313	3,290,547	468,841	5,328,701	66	118	53	237
88	1,592,719	1,094,223	97,200	1,689,919	2,622,297	647,272	4,959,488	50	131	45	226
89	6,200,024	2,079,845	169,807	6,369,831	8,250,140	1,333,077	15,953,048	139	336	82	557
90	2,077,193	1,209,001	130,728	2,207,921	2,957,942	751,971	5,917,834	54	125	56	235
91	4,403,420	1,945,063	186,331	4,589,751	11,665,104	1,173,782	17,428,636	150	482	84	716
92	2,168,437	1,050,070	95,562	2,263,999	2,218,441	569,193	5,051,633	50	95	52	197
93	1,691,511	705,669	96,816	1,788,327	2,682,992	700,795	5,172,114	46	97	67	210
94	1,678,232	1,039,747	90,489	1,768,721	2,666,957	950,243	5,385,921	58	110	68	236
95	2,886,476	1,446,562	183,784	3,070,260	4,719,966	956,285	8,746,511	86	196	50	332
96	1,964,000	1,228,800	166,400	2,130,400	2,488,700	579,200	5,198,300	51	95	21	167
97	3,971,429	2,279,494	220,542	4,191,971	6,056,263	977,994	11,226,228	117	229	119	465
98	2,092,692	1,216,758	100,920	2,193,612	2,592,421	706,292	5,492,325	40	94	64	198
99	1,914,895	1,274,351	104,755	2,019,650	2,860,639	1,666,942	6,547,231	60	122	40	222
100	1,579,326	855,591	103,278	1,682,604	3,214,336	942,299	5,839,239	57	92	47	196

ARL Library Data Table

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
101 +LM	1,447,373	44,832	43,865	1,352,999	18,891	5,364	5,852	11,216	1,983	1,842	3,825
102 +LM	4,281,749	121,531	108,534	2,271,769	52,153	35,409	54,434	89,843	9,779	20,535	30,314
103 +bGLM	7,880,025	172,165	154,601	1,716,933	52,212	N/A	N/A	11,444	N/A	N/A	6,439
104 +BL	1,436,146	57,174	56,231	1,324,160	19,883	4,547	4,628	9,175	2,485	1,393	3,878
105 G	5,046,674	115,990	96,551	2,476,893	13,534	12,812	2,901	15,713	344	121	465
106 +b	1,769,300	90,300	90,300	1,693,900	25,800	82,390	137,194	219,584	N/A	N/A	1,811
107	3,445,267	18,857	18,857	951,290	28,477	21,087	0	21,087	0	0	0
108 +	669,982	11,911	11,911	450,563	7,086	26,022	17,475	43,497	480	0	480
109 +L	19,889,066	200,000	168,000	5,972,572	150,000	72,108	16,316	88,424	450	0	450
110 +	564,100	26,100	26,100	809,824	16,032	10,283	48,021	58,304	13	72	85
111 +	1,796,394	32,548	32,548	542,000	25,000	1,618	22,470	24,088	N/A	N/A	13,138
112 +G	930,275	34,620	33,869	2,000,000	27,274	46,182	18,708	64,890	623	514	1,137
113 +	1,667,577	40,587	40,257	149,938	24,188	10,362	162,855	173,217	36	40	76
114 +bG	1,371,909	9,135	8,757	227,119	6,200	0	658	658	80	0	80
115 +	5,600,813	180,110	175,419	1,981,572	188,145	513	5,449	5,962	1,004	222	1,226
116 +GLM	1,880,415	49,035	48,942	2,476,158	23,000	18,463	30,225	48,688	233	665	898
117 +	927,475	41,364	28,071	N/A	20,463	5,191	15,340	20,531	19,556	4,052	23,608

B - INCLUDES BRANCH CAMPUSES
G - GOVERNMENT DOCUMENTS NOT INCLUDED IN SERIALS COUNT
L - INCLUDES LAW LIBRARY
M - INCLUDES MEDICAL LIBRARY
N/A - NOT AVAILABLE
+ - SEE FOOTNOTES
b - BIBLIOGRAPHIC COUNT

ARL Library Data Table

LIBRARY CODE NO.	EXPENDITURES							PERSONNEL (FTE)			
	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
101	2,246,251	1,092,302	89,652	2,335,903	4,200,276	179,593	6,715,772	56	219	42	317
102	3,543,073	1,779,688	178,600	3,721,673	7,267,140	1,435,742	12,424,555	129	236	136	501
103	4,111,500	1,759,000	257,100	4,368,600	9,218,900	2,500,500	16,088,000	179	390	51	620
104	1,630,988	815,521	92,756	1,723,744	3,377,268	612,307	5,713,319	49	134	38	221
105	1,673,150	N/A	N/A	1,673,150	7,318,792	2,255,499	11,247,441	156	311	48	515
106	4,991,951	2,855,626	20,601	5,012,551	4,359,867	2,883,634	12,256,053	77	128	0	205
107	871,807	199,683	[illegible]	871,807	1,140,839	773,469	2,786,115	15	33	10	58
108	331,663	318,654	27,377	359,040	471,581	448,196	1,478,817	12	32	0	44
109	5,762,079	2,005,947	1,136,070	6,898,149	120,322,000	79,556,000	206,776,149	2,542	2,766	0	5,308
110	813,384	695,541	67,468	880,852	721,963	117,256	1,720,071	24	16	17	57
111	409,725	682,002	100,000	509,725	4,116,500	3,540,773	8,166,998	72	81	11	164
112	1,512,873	330,101	12,633	1,525,506	11,688,125	7,748,896	20,962,527	216	331	0	547
113	1,868,000	1,185,000	250,000	2,118,000	6,694,000	5,922,000	14,734,000	145	102	28	275
114	294,128	N/A	117,407	411,535	1,727,758	779,204	2,918,497	36	71	0	107
115	3,367,000	N/A	N/A	3,367,000	8,780,932	4,685,625	16,833,557	301	468	112	881
116	1,346,373	872,741	51,335	1,397,708	3,454,188	1,091,019	5,942,915	81	136	0	217
117	656,481	314,258	67,190	723,671	2,270,000	990,498	3,984,169	45	60	1	106

ARL Library Data Table
Totals

COLLECTIONS					INTERLIBRARY LOANS					
					LOANED			BORROWED		
VOLUMES IN LIBRARY	VOLUMES ADDED (GROSS)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
1	2	3	4	5	6	7	8	9	10	11
UNIVERSITY MEDIAN										
1,900,503	64,460	56,048	1,659,290	19,943	5,184	7,668	13,584	2,868	2,816	6,200
UNIVERSITY HIGH										
10,567,240	230,171	218,977	3,910,104	101,584	84,888	127,694	154,985	61,237	20,535	68,049
UNIVERSITY LOW										
1,062,495	25,518	21,756	479,012	8,718	477	370	847	108	208	316
TOTALS—UNIVERSITY LIBRARIES										
251,210,38[illegible]	8,147,951	7,024,845	178,959,508	2,781,654	729,965	1,240,571	2,02[illegible]23	378,498	330,742	737,955
TOTALS—NON-UNIVERSITY LIBRARIES										
45,559,247	850,557	779,582	19,731,829	555,199	307,031	477,612	784,643	22,819	5,686	43,454
GRAND TOTALS—ALL ARL LIBRARIES										
296,769,635	8,998,508	7,804,427	198,691,337	3,336,853	1,036,996	1,718,183	2,805,366	401,317	[illegible]36,428	781,409

ARL Library Data Table
Totals

EXPENDITURES							PERSONNEL (FTE)			
LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
12	13	14	15	16	17	18	19	20	21	22
UNIVERSITY MEDIAN										
2,148,524	1,215,140	120,082	2,249,920	3,377,268	700,400	6,279,706	64	134	59	250
UNIVERSITY HIGH										
6,251,797	2,863,190	599,206	6,807,383	14,018,278	3,258,709	22,932,264	280	526	219	944
UNIVERSITY LOW										
850,914	474,774	46,070	914,171	1,617,316	179,593	3,544,448	32	53	15	113
TOTALS—UNIVERSITY LIBRARIES										
251,645,994	130,225,878	15,626,388	267,272,382	435,827,115	87,223,286	790,277,782	7,782	16,173	6,724	30,679
TOTALS—NON-UNIVERSITY LIBRARIES										
23,898,614	9,459,553	1,850,081	25,748,694	173,266,545	110,792,069	309,807,309	3,722	4,535	227	8,484
GRAND TOTALS—ALL ARL LIBRARIES										
275,544,608	139,685,431	17,476,469	293,021,076	609,093,660	198,015,355	1,100,085,091	11,504	20,708	6,951	39,163

ANALYSIS OF SELECTED VARIABLES OF UNIVERSITY LIBRARIES

The percentages and ratios below are intended to summarize the basic data in the ARL Library Data Tables. The high, median, and low figures indicate the range as well as the midpoint for ARL's 104 university library members.

	Category	High	Median	Low
1.	Professional Staff as percent of Total Staff	38	25	16
2.	Nonprofessional Staff as percent of Total Staff	71	51	20
3.	Student Assistant Staff as percent of Total Staff	56	22	8
4.	Ratio of Professional to Non-professional Staff (excluding student assistants)	1.1:1	0.5:1	0.2:1
5.	Ratio of Items Loaned to Items Borrowed	21.3:1	2.4:1	0.6:1
6.	Materials Expenditures as percent of Total Operating Expenditures	47	32	20
7.	Serials Expenditures as percent of Materials Expenditures	71	54	30
8.	Salary and Wage Expenditures as percent of Total Operating Expenditures	69	53	40
9.	Ratio of Salary and Wage Expenditures to Materials Expenditures	3.0:1	1.6:1	0.9:1

Median figures are useful indicators when there is wide dispersion within a distribution. Because the mean represents a "balance point," a few very high or low scores may sometimes pull the mean away from the actual point at which values cluster. Medians, on the other hand, are a measure of central tendency, focusing on the midpoint in a distribution, and are thus preferable for describing ARL libraries.

Ph.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1982			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Alabama	92	40	14,017	902	2,002	482
Alberta	130	57	21,012	888	2,302	272
Arizona	243	70	22,627	3,379	3,020	1,605
Arizona State	119	32	25,884	5,130	2,295	1,194
Boston+	141	45	17,620	3,128	4,459	1,366
Brigham Young	59	30	22,619	3,299	1,460	407
British Columbia	104	137	20,688	1,915	2,614	372
Brown	137	27	5,407	32	1,439	62
Calif., Berkeley	781	103	29,313	N/A	8,806	N/A
Calif., Davis	290	51	19,321	0	5,254	0
Calif., Irvine	80	30	11,009	730	2,525	0
Calif., Los Angeles+	481	60	33,333	[illegible]	11,26[illegible]	N/A
Calif., Riverside	103	25	4,439	103	1,247	0
Calif., San Diego	168	37	12,41[illegible]	257	1,54[illegible]	0
Calif., Santa Barbara	138	54	13,496	600	1,86[illegible]	77
Case Western Reserve	133	35	6,540	2,158	966	905
Chicago	350	80	7,154	993	3,450	842
Cincinnati	139	55	19,541	3,597	2,314	474
Colorado	215	49	19,686	977	2,547	185
Colorado State	159	36	16,717	548	1,79[illegible]	209
Columbia	329	54	13,102	996	6,446	479
Connecticut	168	42	16,408	6,392	2,220	3,729
Cornell	383	178	17,144	N/A	4,061	N/A
Dartmouth	25	10	3,546	40	847	55
Delaware	58	40	13,805	1,855	858	405
Duke	169	28	9,295	160	3,231	37
Emory	78	95	7,104	293	860	174
Florida	286	66	22,837	1,644	3,669	1,122
Florida State	279	62	16,977	1,987	2,014	511
Georgetown	70	24	9,264	1,319	951	698
Georgia	208	47	20,998	2,298	2,581	647
Georgia Tech	74	61	10,081	526	1,290	261
Guelph	39	53	10,355	535	816	50
Harvard	340	55	15,578	140	6,548	110
Hawaii	120	38	15,141	2,289	1,728	584
Houston	151	31	15,835	7,355	2,032	1,927
Howard	60	23	12,677	N/A	3,811	N/A
Illinois+	857	75	36,678	4,180	5,263	2,368

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

\+ - See footnotes

PH.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1982			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Indiana	289	99	27,346	1,815	3,650	708
Iowa	236	54	22,140	2,577	3,027	1,152
Iowa State	214	62	22,127	1,408	2,181	750
Johns Hopkins	192	45	4,920	1,697	2,117	1,202
Kansas+	212	61	20,104	2,298	2,198	1,222
Kent State	117	18	14,697	1,681	1,486	440
Kentucky	144	49	17,497	1,559	2,606	538
Louisiana State	117	48	24,722	2,406	1,176	1,063
McGill	152	50	15,610	4,346	2,797	896
McMaster	58	27	11,161	2,217	1,174	605
Manitoba	67	33	14,983	3,740	1,875	512
Maryland	322	56	26,524	3,908	2,761	1,458
Massachusetts	174	47	21,858	809	2,347	517
MIT	473	220	9,475	192	4,306	61
Miami	53	39	11,372	1,672	1,081	415
Michigan	585	122	30,836	1,794	6,706	1,015
Michigan State	481	148	34,175	3,595	3,449	1,830
Minnesota	466	85	27,389	9,232	3,196	474
Missouri	222	75	20,806	1,197	1,973	696
Nebraska	204	27	19,126	2,390	1,716	818
New Mexico	114	36	14,017	3,523	1,402	887
New York	327	144	17,475	5,365	7,128	3,869
North Carolina	282	59	18,599	1,541	2,700	1,406
North Carolina State	197	46	14,526	3,149	1,171	1,849
Northwestern	276	61	12,254	1,150	5,254	465
Notre Dame	121	24	9,026	103	1,085	39
Ohio State	564	84	43,151	3,887	5,595	1,025
Oklahoma	132	55	16,402	1,987	1,508	849
Oklahoma State	123	38	19,621	1,556	1,503	829
Oregon	206	49	13,226	751	1,941	216
Pennsylvania	396	83	17,736	946	5,487	331
Pennsylvania State	345	88	49,715	4,981	3,746	432
Pittsburgh	392	70	17,225	4,854	3,482	1,988
Princeton	171	51	6,031	0	1,512	0
Purdue	388	53	28,840	1,146	3,375	507
Queen's	136	27	11,396	3,327	1,369	458
Rice	71	27	3,719	0	1,076	0
Rochester	147	66	6,574	662	1,650	227

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

+ - See footnotes

PH.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1982			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Rutgers	246	53	31,527	5,967	3,989	3,106
Saskatchewan	26	N/A	11,110	888	745	344
South Carolina	118	33	16,142	8,154	2,962	5,211
Southern California	N/A	N/A	18,409	4,362	2,608	3,546
Southern Illinois	198	20	19,492	2,053	803	1,234
Stanford	438	74	11,605	726	4,943	526
SUNY - Albany	86	21	9,939	1,716	1,630	1,253
SUNY - Buffalo	273	56	19,260	2,597	4,790	974
SUNY - Stony Brook	153	25	12,902	3,279	2,547	N/A
Syracuse +	138	86	14,505	2,206	1,792	602
Temple	60	110	18,468	3,491	1,824	1,684
Tennessee	176	52	20,578	2,499	2,280	804
Texas	416	63	42,181	2,901	7,544	1,443
Texas A & M	293	72	31,672	1,811	3,190	532
Toronto	298	64	34,670	4,912	5,007	1,157
Tulane	48	31	8,532	1,980	1,648	254
Utah	168	60	16,814	3,123	1,242	751
Vanderbilt	149	39	7,974	243	1,770	164
Virginia	186	43	15,499	557	2,975	227
Virginia Polytechnic	175	48	20,247	899	2,442	590
Washington	387	67	26,510	3,409	5,016	773
Washington State	142	32	15,800	1,534	1,411	481
Wash. Univ., St. Louis	151	68	7,035	1,062	2,772	350
Wayne State	162	38	17,191	4,978	2,049	1,472
Western Ontario	91	29	15,295	3,305	1,794	228
Wisconsin+	549	121	35,246	2,568	7,217	746
Yale	281	56	9,934	398	3,545	232
York +	42	N/A	25,110	N/A	4,528	N/A

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

\+ - See footnotes

THE ARL LIBRARY INDEX*

The data tables at the beginning of the ARL Statistics display figures reported by ARL member libraries in 22 categories that, with the exception of the measures of interlibrary loan activity, describe the size of ARL libraries in terms of holdings, expenditures, and personnel. The rank order tables provide an overview of the ranges and medians for 14 of these categories, or variables, among ARL academic libraries, as well as quantitatively comparing each library with other ARL member institutions. However, no one of the 22 variables provides a summary measure of a library's relative size within ARL or characterizes the ARL libraries as a whole.

The ARL Library Index has been derived as a means of providing this summary characterization, permitting quantitative comparisons of ARL academic libraries, singly and as a group, with other academic libraries. Through the use of statistical techniques known as factor analysis, it can be determined that 15 of the variables reported to ARL are more closely correlated with each other than with other categories. Within this group of 15 variables, some are subsets or combinations of others, e.g. expenditures for serials are a subset of expenditures for library materials. When the subsets and combinations are eliminated, ten variables emerge as characteristic of ARL library size. These are: volumes held, volumes added (gross), microform units held, current serials received, expenditures for library materials, expenditures for binding, total salary and wage expenditures, other operating expenditures, number of professional staff, and number of nonprofessional staff.

These ten categories delineate an underlying dimension, or factor, of library size. By means of principal component analysis, a technique that is a variant of factor analysis, it is possible to calculate the correlations of each of the variables with this hypothetical factor of library size. From this analysis, a weight for each variable can be determined based upon how closely that variable is correlated with the overall dimension of library size defined by all ten categories. A high correlation indicates that much of the variation in ARL library size is accounted for by the variable in question, implying a characteristic in which ARL libraries are relatively alike. The component score coefficients, or weights, for the 1982-83 ARL academic library data are:

Volumes held	.12372
Volumes added (gross)	.12075
Microforms held	.07568
Current serials received	.12147
Expenditures for library materials	.12455
Expenditures for binding	.11398
Expenditures for salaries and wages	.12725
Other operating expenditures	.10002
Number of professional staff	.12752
Number of nonprofessional staff	.11816

*For a full description of the index see Kendon Stubbs, The ARL Library Index and Quantitative Relationships in the ARL (Washington, D.C.: ARL, 1980).

From these weights an individual library can compute an index score that will indicate its relative position among ARL libraries with respect to the overall factor of library size. The data for each of the ten variables are converted to standard normal form and multiplied by the appropriate weight. The resulting scores are expressed in terms of the number of standard deviations above or below the mean index score for ARL academic libraries. Thus the formula* for calculating a library's 1982-83 index score is:

.12372 (log of volumes held - 6.3218)/.2133
+ .12075 (log of volumes added gross - 4.8455)/.1988
+ .07568 (log of microforms - 6.2023)/.1756
+ .12147 (log of current serials - 4.3567)/.2334
+ .12455 (log of expenditures for materials - 6.3575)/.1573
+ .11398 (log of expenditures for binding - 5.1132)/.2283
+ .12725 (log of total salaries - 6.5740)/.2046
+ .10002 (log of operating expenditures - 5.8456)/.2688
+ .12752 (log of professional staff - 1.8313)/.1854
+ .11816 (log of nonprofessional staff - 2.1416)/.2015

The index scores for the 104 academic libraries that were members of ARL during 1982-83 are shown on the following page. It is important to emphasize that these scores are only a summary description of library size, distributing ARL libraries along a normal curve, based on ten quantitative measures that are positively correlated with one another in ARL libraries. The scores are in no way a qualitative assessment of the collections, services, or operations of these libraries.

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*For calculation on a hand calculator, the formula can be mathematically simplified to:

.58003 x log of volumes held
+ .60739 x log of volumes added gross
+ .43098 x log of microforms
+ .52044 x log of current serials
+ .79180 x log of expenditures for materials
+ .49926 x log of expenditures for binding
+ .62195 x log of total salaries
+ .37210 x log of operating expenditures
+ .68781 x log of professional staff
+ .58640 x log of nonprofessional staff
- 27.91629

ARL Library Index, 1982-1983

1.	Harvard	3.08
2.	Calif., Berkeley	2.49
3.	Calif., Los Angeles	2.36
4.	Yale	2.13
5.	Stanford	2.08
6.	Texas	1.96
7.	Toronto	1.90
8.	Michigan	1.80
9.	Columbia	1.73
10.	Illinois	1.70
11.	Cornell	1.65
12.	Washington	1.43
13.	Wisconsin	1.42
14.	Minnesota	1.27
15.	British Columbia	1.08
16.	Ohio State	1.01
17.	Princeton	.97
18.	North Carolina	.94
19.	Pennsylvania State	.92
20.	Indiana	.87
21.	Arizona	.86
22.	Chicago	.79
23.	Calif., Davis	.73
24.	Virginia	.68
25.	Rutgers	.68
26.	Pennsylvania	.62
27.	New York	.55
28.	Howard	.53
29.	Alberta	.51
30.	Northwestern	.43
31.	Georgia	.43
32.	Florida	.40
33.	Duke	.39
34.	Southern California	.38
35.	Michigan State	.31
36.	Pittsburgh	.23
37.	Iowa	.21
38.	SUNY - Buffalo	.19
39.	Kansas	.14
40.	Calif., San Diego	.10
41.	Arizona State	.04
42.	Maryland	.04
43.	Johns Hopkins	-.05
44.	Calif., Santa Barbara	-.05
45.	Louisiana State	-.09
46.	Boston	-.11
47.	MIT	-.13
48.	Syracuse	-.13
49.	Kentucky	-.18
50.	McGill	-.18
51.	Cincinnati	-.24
52.	Missouri	-.31
53.	Virginia Polytechnic	-.33
54.	Hawaii	-.36
55.	Texas A&M	-.36
56.	Washington, St. Louis	-.37
57.	Georgetown	-.40
58.	Houston	-.40
59.	Miami	-.40
60.	Southern Illinois	-.43
61.	South Carolina	-.46
62.	Western Ontario	-.50
63.	Emory	-.51
64.	Brigham Young	-.54
65.	Oklahoma	-.55
66.	Connecticut	-.56
67.	York	-.56
68.	Washington State	-.56
69.	Colorado	-.56
70.	Purdue	-.57
71.	Iowa State	-.57
72.	Rochester	-.61
73.	Brown	-.61
74.	Calif., Irvine	-.61
75.	Wayne State	-.61
76.	Vanderbilt	-.66
77.	Temple	-.69
78.	SUNY - Stony Brook	-.69
79.	Utah	-.69
80.	Tennessee	-.70
81.	Nebraska	-.74
82.	Tulane	-.75
83.	Manitoba	-.77
84.	Georgia Tech	-.80
85.	North Carolina State	-.80
86.	Massachusetts	-.84
87.	Florida State	-.93
88.	McMaster	-.94
89.	Delaware	-.94
90.	Queen's	-.95
91.	Oregon	-.99
92.	Dartmouth	-1.01
93.	Notre Dame	-1.10
94.	SUNY - Albany	-1.13
95.	New Mexico	-1.15
96.	Calif., Riverside	-1.16
97.	Alabama	-1.20
98.	Saskatchewan	-1.24
99.	Colorado State	-1.28
100.	Oklahoma State	-1.30
101.	Guelph	-1.34
102.	Kent State	-1.41
103.	Case Western Reserve	-1.43
104.	Rice	-1.50

SUMMARY OF RANK ORDER TABLES FOR UNIVERSITY LIBRARIES

The table below presents the rank for each university library in each of the fourteen categories for which rank order tables are prepared. As a further indication of the relative position of each institution, note that, in the individual rank order tables on the following pages, "group codes" are used. This is done because, in a number of cases, there is a relatively insignificant difference between two institutions which are nevertheless given two different rankings. The "coarser" ranking provided by clustering institutions into groups (based upon ranges) more realistically describes a library's relative standing.

The table numbers in the chart below refer to the following categories:

Table 1 - Volumes in Library
Table 2 - Volumes Added (Gross)
Table 3 - Total Microform Holdings
Table 4 - Current Serials
Table 5 - Professional Staff (FTE)
Table 6 - Nonprofessional Staff (FTE)
Table 7 - Total Staff (FTE)
Table 8 - Materials Expenditures
Table 9 - Materials & Binding Expenditures
Table 10 - Salaries & Wages Expenditures
Table 11 - Total Expenditures
Table 12 - Total Items Lent
Table 13 - Total Items Borrowed
Table 14 - Current Serials Expenditures

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Alabama	73	97	84	96	85	101	95	69	70	102	99	91	88	91
Alberta	33	29	55	84	35	11	21	32	34	15	18	55	33	75
Arizona	24	18	18	25	28	26	23	20	20	31	26	8	53	21
Arizona State	55	27	53	43	57	39	43	29	28	55	48	41	4	25
Boston	78	52	35	35	53	51	48	52	50	62	52	95	34	43
Brigham Young	62	45	90	76	43	102	35	N/A	N/A	N/A	N/A	97	29	N/A
British Columbia	34	15	12	22	15	6	13	23	24	9	13	38	37	N/A
Brown	54	93	101	85	46	77	69	80	77	76	64	96	83	88
Calif., Berkeley	4	1	10	1	6	7	3	6	5	3	3	16	8	6
Calif., Davis	56	31	42	13	45	27	37	12	12	27	22	15	55	13
Calif., Irvine	103	59	80	81	83	92	74	39	39	59	55	59	22	57
Calif., Los Angeles	5	8	11	4	3	12	6	3	3	5	2	6	18	5
Calif., Riverside	101	82	95	90	103	95	101	88	88	87	88	94	24	93
Calif., San Diego	65	42	93	30	68	34	46	36	35	35	33	46	45	52
Calif., Santa Barbara	69	55	41	54	71	45	50	40	40	36	40	37	12	67
Case Western Reserve	84	104	104	93	54	99	92	101	101	91	98	5	21	86
Chicago	11	13	96	11	42	41	36	37	36	30	27	22	90	36
Cincinnati	90	95	56	62	44	52	44	45	45	39	42	19	13	37
Colorado	46	89	19	49	90	84	86	71	71	64	73	72	50	59
Colorado State	92	87	99	80	91	97	102	102	102	93	100	71	36	94

N/A - Not available

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Columbia	7	23	8	7	7	10	9	17	15	7	9	40	61	11
Connecticut	57	54	54	69	58	98	85	72	72	56	63	28	32	40
Cornell	12	14	4	8	8	14	14	11	11	14	10	32	59	N/A
Dartmouth	72	94	67	59	99	70	91	91	92	98	91	88	49	60
Delaware	66	60	91	68	100	91	98	58	57	99	90	76	96	80
Duke	19	33	89	29	25	29	25	31	30	33	36	24	66	23
Emory	58	62	81	66	69	71	77	53	53	75	66	25	64	56
Florida	31	43	21	40	29	43	27	35	37	44	35	29	10	28
Florida State	79	102	20	78	64	87	73	77	78	97	96	61	75	74
Georgetown	87	51	83	63	50	88	53	62	61	51	50	92	80	90
Georgia	36	32	7	14	38	35	39	26	26	50	46	21	65	18
Georgia Tech	61	19	46	39	88	104	104	100	100	103	103	51	101	87
Guelph	86	44	100	102	102	59	93	97	99	84	94	101	60	99
Harvard	1	3	3	2	1	1	1	1	1	1	1	11	57	1
Hawaii	51	37	58	21	56	78	63	55	60	45	53	65	98	44
Houston	91	47	25	75	62	54	55	56	54	73	69	82	67	62
Howard	95	39	65	36	26	42	47	19	21	23	15	103	103	20
Illinois	3	5	31	3	13	8	10	14	16	13	14	2	1	9
Indiana	15	11	78	33	17	21	12	22	22	21	23	13	26	38
Iowa	27	30	26	28	40	79	60	24	23	48	41	12	56	10
Iowa State	74	68	66	50	79	72	79	47	49	71	67	36	71	48
Johns Hopkins	30	69	87	65	39	28	41	49	52	47	34	47	5	46
Kansas	32	40	77	31	36	47	45	30	31	43	37	14	3	31
Kent State	76	76	92	104	104	93	97	103	103	92	95	98	15	101
Kentucky	53	75	14	20	51	64	61	41	46	53	54	45	23	34
Louisiana State	43	50	49	44	52	75	64	18	18	63	45	85	92	32
MIT	52	57	75	48	30	37	42	83	79	41	51	31	73	65
Manitoba	96	79	102	99	48	36	54	85	81	46	59	60	42	82
Maryland	64	73	45	56	33	40	31	42	41	34	38	69	100	41
Massachusetts	49	41	82	95	70	68	70	82	86	57	77	73	40	92
McGill	37	48	103	88	37	20	30	70	69	22	32	20	30	68
McMaster	97	61	97	94	93	46	83	51	55	69	72	81	52	72
Miami	82	49	44	64	66	61	56	66	65	65	62	57	46	69

N/A - Not available

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Michigan	6	9	17	5	10	9	5	7	7	10	8	30	14	4
Michigan State	23	21	39	52	41	57	38	43	42	40	39	86	81	58
Minnesota	16	20	50	16	12	30	18	15	13	12	12	1	[illegible]	12
Missouri	39	65	9	57	73	67	76	60	58	80	76	26	38	35
Nebraska	70	71	62	60	76	73	88	81	82	95	89	66	76	55
New Mexico	99	77	28	103	86	76	75	99	98	86	93	89	86	96
New York	25	56	51	32	27	24	24	33	32	24	25	75	31	16
North Carolina	22	17	40	17	16	25	22	16	17	26	24	34	78	33
North Carolina State	102	78	34	73	94	69	87	63	64	89	86	23	93	78
Northwestern	21	22	76	23	18	44	26	38	38	28	31	67	25	27
Notre Dame	67	81	98	97	89	85	99	98	96	96	97	99	94	97
Ohio State	17	24	30	34	19	22	16	9	10	17	16	17	17	24
Oklahoma	45	36	63	72	74	94	80	67	68	74	70	52	7	39
Oklahoma State	93	86	71	86	96	103	100	94	94	100	102	70	68	83
Oregon	63	85	88	67	87	96	89	61	63	88	87	58	70	79
Pennsylvania	20	38	59	26	23	38	32	54	43	25	29	79	19	51
Pennsylvania State	29	12	16	41	20	13	17	27	27	19	19	54	16	22
Pittsburgh	28	34	48	51	34	31	29	48	47	37	43	18	54	89
Princeton	18	26	57	24	22	15	19	21	19	20	20	84	77	29
Purdue	68	66	70	71	95	33	51	75	75	60	65	77	62	49
Queen's	75	84	94	92	97	32	62	79	80	67	83	100	51	84
Rice	98	100	64	98	101	100	103	95	97	101	101	68	102	81
Rochester	50	63	27	100	59	89	68	74	73	70	75	44	58	66
Rutgers	40	25	52	45	21	17	20	34	33	16	21	27	39	14
SUNY Albany	104	101	33	79	80	80	94	93	93	90	92	53	9	61
SUNY Buffalo	38	53	15	42	24	49	40	44	44	42	44	33	43	26
SUNY Stony Brook	89	72	38	61	82	63	72	65	67	81	81	43	63	54
Saskatchewan	100	98	74	101	92	62	90	78	84	72	85	93	27	76
South Carolina	44	67	32	74	55	65	78	92	91	83	84	62	85	95
Southern California	35	35	60	19	32	48	34	28	29	32	30	90	99	19
Southern Illinois	59	91	23	55	60	74	52	76	76	49	57	9	72	45
Stanford	9	7	13	12	4	4	7	4	4	4	4	35	41	2
Syracuse	41	46	24	47	49	50	49	73	74	61	56	102	79	77

N/A - Not available

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Temple	60	83	85	83	47	60	57	96	95	54	74	80	87	71
Tennessee	80	103	61	38	77	55	65	89	89	79	82	48	82	63
Texas	8	4	6	6	9	5	8	2	2	8	7	50	20	7
Texas A & M	85	70	29	70	72	56	59	59	56	66	58	7	11	53
Toronto	10	2	43	15	5	2	2	5	6	2	5	39	35	8
Tulane	77	74	68	91	78	82	82	50	51	94	80	83	48	70
Utah	42	99	36	89	84	81	71	84	83	77	79	78	28	98
Vanderbilt	71	80	86	77	63	66	58	86	85	78	71	56	69	73
Virginia	26	28	5	37	31	23	28	25	25	29	28	87	97	30
Virginia Polytechnic	88	58	2	46	75	83	96	64	62	85	78	49	91	47
Washington	14	10	1	18	14	18	15	10	9	18	17	3	74	3
Washington State	94	92	37	27	98	86	81	57	59	82	68	104	104	50
Washington, St. Louis	47	88	79	82	61	58	66	68	66	68	49	42	44	42
Wayne State	48	96	72	87	65	90	84	90	90	58	60	10	95	85
Western Ontario	81	90	69	58	67	19	33	46	48	38	47	64	89	64
Wisconsin	13	16	22	10	11	16	11	13	14	11	11	4	2	15
Yale	2	6	47	9	2	3	4	8	8	6	6	63	47	17
York	83	64	73	53	81	53	67	87	87	52	61	74	84	100

N/A - Not available

RANK ORDER TABLE 1: VOLUMES IN LIBRARY

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 8,000 and over
2- 7,000-7,999
3- 6,000-6,999
4- 5,000-5,999
5- 4,000-4,999
6- 3,000-3,999
7- 2,000-2,999
8- 1,000-1,999

Gp	Rank	Institution	Value
1	1	Harvard	10,567,240
2	2	Yale	7,880,025
3	3	Illinois	6,411,948
	4	Calif., Berkeley	6,336,301
4	5	Calif., Los Angeles	5,744,144
	6	Michigan	5,597,266
	7	Columbia	5,270,432
	8	Texas	5,057,649
	9	Stanford	5,040,940
5	10	Toronto	4,856,750
	11	Chicago	4,688,361
	12	Cornell	4,516,717
	13	Wisconsin	4,281,749
	14	Washington	4,168,079
	15	Indiana	4,105,734
	16	Minnesota	4,037,478
6	17	Ohio State	3,779,819
	18	Princeton	3,519,262
	19	Duke	3,261,222
	20	Pennsylvania	3,120,976
7	21	Northwestern	2,973,100
	22	North Carolina	2,952,859
	23	Michigan State	2,898,698
	24	Arizona	2,853,707
	25	New York	2,756,470
	26	Virginia	2,550,064
	27	Iowa	2,494,680
	28	Pittsburgh	2,472,489
	29	Pennsylvania State	2,402,938
	30	Johns Hopkins	2,393,572
	31	Florida	2,349,473
	32	Kansas	2,323,678
	33	Alberta	2,316,560
	34	British Columbia	2,262,210
	35	Southern California	2,247,063
	36	Georgia	2,226,090
	37	McGill	2,188,662
	38	SUNY-Buffalo	2,181,241
	39	Missouri	2,160,287
	40	Rutgers	2,083,310
	41	Syracuse	2,065,873
	42	Utah	2,045,797
	43	Louisiana State	2,017,365
	44	South Carolina	2,003,347
8	45	Oklahoma	1,981,440
	46	Colorado	1,972,172
	47	Washington, St. Louis	1,953,047
	48	Wayne State	1,941,348
	49	Massachusetts	1,938,833
	50	Rochester	1,925,138
	51	Hawaii	1,914,846
	52	MIT	1,906,374
	53	Kentucky	1,894,632
	54	Brown	1,847,736
	55	Arizona State	1,830,329
	56	Calif., Davis	1,827,150
	57	Connecticut	1,801,211
	58	Emory	1,789,395
	59	Southern Illinois	1,756,367
	60	Temple	1,742,595
	61	Georgia Tech	1,661,559
	62	Brigham Young	1,625,278
	63	Oregon	1,586,877
	64	Maryland	1,577,178
	65	Calif., San Diego	1,566,293
	66	Delaware	1,554,082
	67	Notre Dame	1,543,952
	68	Purdue	1,538,062
	69	Calif., Santa Barbara	1,532,918
	70	Nebraska	1,523,130
	71	Vanderbilt	1,517,038
	72	Dartmouth	1,516,998
	73	Alabama	1,511,340
	74	Iowa State	1,498,279
	75	Queen's	1,495,596
	76	Kent State	1,484,183
	77	Tulane	1,478,003
	78	Boston	1,449,992
	79	Florida State	1,448,753
	80	Tennessee	1,448,738
	81	Western Ontario	1,447,373
	82	Miami	1,444,582
	83	York	1,436,146
	84	Case Western Reserve	1,432,425
	85	Texas A & M	1,418,345
	86	Guelph	1,408,433
	87	Georgetown	1,407,270
	88	Virginia Polytechnic	1,391,736
	89	SUNY-Stony Brook	1,374,100
	90	Cincinnati	1,371,023
	91	Houston	1,360,084
	92	Colorado State	1,356,950
	93	Oklahoma State	1,346,878
	94	Washington State	1,346,609
	95	Howard	1,315,753
	96	Manitoba	1,293,852
	97	McMaster	1,273,954
	98	Rice	1,146,577
	99	New Mexico	1,126,047
	100	Saskatchewan	1,124,670
	101	Calif., Riverside	1,121,512
	102	North Carolina State	1,092,724
	103	Calif., Irvine	1,068,363
	104	SUNY-Albany	1,062,495

RANK ORDER TABLE 2: VOLUMES ADDED (GROSS)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 200,000 and over
2- 180,000-199,999
3- 160,000-179,999
4- 140,000-159,999
5- 120,000-139,999
6- 100,000-119,999
7- 80,000- 99,999
8- 60,000- 79,999
9- 40,000- 59,999
10- under 40,000

Gp	Rank	Institution	Value
1	1	Calif., Berkeley	230,171
	2	Toronto	202,440
2	3	Harvard	185,225
3	4	Texas	177,633
	5	Illinois	176,095
	6	Yale	172,165
	7	Stanford	163,099
4	8	Calif., Los Angeles	157,008
	9	Michigan	142,708
	10	Washington	140,418
5	11	Indiana	139,064
	12	Pennsylvania State	138,885
	13	Chicago	130,629
	14	Cornell	126,398
	15	British Columbia	124,309
	16	Wisconsin	121,531
	17	North Carolina	121,501
6	18	Arizona	117,601
	19	Georgia Tech	116,017
	20	Minnesota	106,352
	21	Michigan State	103,774
	22	Northwestern	103,280
	23	Columbia	103,145
	24	Ohio State	100,480
7	25	Rutgers	99,269
	26	Princeton	95,131
	27	Arizona State	92,452
	28	Virginia	91,553
	29	Alberta	88,842
	30	Iowa	87,282
	31	Calif., Davis	86,582
	32	Georgia	84,473
	33	Duke	84,246
	34	Pittsburgh	83,864
	35	Southern California	82,782
	36	Oklahoma	80,305
8	37	Hawaii	79,591
	38	Pennsylvania	79,247
	39	Howard	74,781
	40	Kansas	72,575
	41	Massachusetts	70,256
	42	Calif., San Diego	69,363
	43	Florida	69,272
	44	Guelph	68,111
	45	Brigham Young	67,754
	46	Syracuse	67,750
	47	Houston	67,737
	48	McGill	67,439
	49	Miami	65,818
	50	Louisiana State	65,728
	51	Georgetown	65,155
	52	Boston	64,566
	53	SUNY-Buffalo	64,353
	54	Connecticut	62,302
	55	Calif., Santa Barbara	61,291
	56	New York	60,479
	57	MIT	60,414
	58	Virginia Polytechnic	60,210
	59	Calif., Irvine	60,040
9	60	Delaware	59,047
	61	McMaster	58,617
	62	Emory	58,408
	63	Rochester	57,465
	64	York	57,174
	65	Missouri	56,398
	66	Purdue	56,022
	67	South Carolina	55,924
	68	Iowa State	55,590
	69	Johns Hopkins	54,996
	70	Texas A & M	54,368
	71	Nebraska	54,221
	72	SUNY-Stony Brook	54,065
	73	Maryland	53,113
	74	Tulane	51,889
	75	Kentucky	49,749
	76	Kent State	49,581
	77	New Mexico	49,502
	78	North Carolina State	49,441
	79	Manitoba	49,287
	80	Vanderbilt	48,995
	81	Notre Dame	48,451
	82	Calif., Riverside	47,709
	83	Temple	47,672
	84	Queen's	47,506
	85	Oregon	46,811
	86	Oklahoma State	46,496
	87	Colorado State	46,054
	88	Washington, St. Louis	45,795
	89	Colorado	45,213
	90	Western Ontario	44,832
	91	Southern Illinois	44,422
	92	Washington State	43,998
	93	Brown	43,367
	94	Dartmouth	42,861
	95	Cincinnati	42,626
	96	Wayne State	42,601
	97	Alabama	41,437
	98	Saskatchewan	41,324
10	99	Utah	38,542
	100	Rice	37,450
	101	SUNY-Albany	36,168
	102	Florida State	35,293
	103	Tennessee	31,012
	104	Case Western Reserve	25,518

RANK ORDER TABLE 3: MICROFORM HOLDINGS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 3,500 and over
2- 3,000-3,499
3- 2,500-2,999
4- 2,000-2,499
5- 1,500-1,999
6- 1,000-1,499
7- 500- 999
8- under 500

Gp	Rank	Institution	Value
1	1	Washington	3,910,104
2	2	Virginia Polytechnic	3,434,127
	3	Harvard	3,021,292
3	4	Cornell	2,953,693
	5	Virginia	2,859,945
	6	Texas	2,859,799
	7	Georgia	2,787,338
	8	Columbia	2,771,509
	9	Missouri	2,720,052
	10	Calif., Berkeley	2,696,778
	11	Calif., Los Angeles	2,695,219
	12	British Columbia	2,687,722
	13	Stanford	2,606,866
	14	Kentucky	2,555,680
	15	SUNY-Buffalo	2,550,694
4	16	Pennsylvania State	2,493,017
	17	Michigan	2,490,143
	18	Arizona	2,479,283
	19	Colorado	2,476,185
	20	Florida State	2,388,395
	21	Florida	2,348,774
	22	Wisconsin	2,271,769
	23	Southern Illinois	2,194,039
	24	Syracuse	2,181,160
	25	Houston	2,115,795
	26	Iowa	2,074,442
	27	Rochester	2,064,509
	28	New Mexico	2,043,551
	29	Texas A & M	2,042,624
	30	Ohio State	2,029,478
5	31	Illinois	1,978,782
	32	South Carolina	1,972,448
	33	SUNY-Albany	1,966,142
	34	North Carolina State	1,962,167
	35	Boston	1,951,136
	36	Utah	1,942,337
	37	Washington State	1,942,224
	38	SUNY-Stony Brook	1,930,265
	39	Michigan State	1,871,763
	40	North Carolina	1,845,576
	41	Calif., Santa Barbara	1,838,028
	42	Calif., Davis	1,829,939
	43	Toronto	1,754,949
	44	Miami	1,747,541
	45	Maryland	1,747,336
	46	Georgia Tech	1,737,597
	47	Yale	1,716,933
	48	Pittsburgh	1,713,068
	49	Louisiana State	1,712,189
	50	Minnesota	1,686,647
	51	New York	1,676,361
	52	Rutgers	1,672,761
	53	Arizona State	1,645,818
	54	Connecticut	1,645,071
	55	Alberta	1,635,707
	56	Cincinnati	1,615,364
	57	Princeton	1,603,912
	58	Hawaii	1,536,824
	59	Pennsylvania	1,522,668
6	60	Southern California	1,480,342
	61	Tennessee	1,465,853
	62	Nebraska	1,450,731
	63	Oklahoma	1,450,350
	64	Rice	1,424,884
	65	Howard	1,420,593
	66	Iowa State	1,394,705
	67	Dartmouth	1,363,780
	68	Tulane	1,362,036
	69	Western Ontario	1,352,999
	70	Purdue	1,334,465
	71	Oklahoma State	1,326,544
	72	Wayne State	1,324,228
	73	York	1,324,160
	74	Saskatchewan	1,287,990
	75	MIT	1,279,067
	76	Northwestern	1,278,889
	77	Kansas	1,272,088
	78	Indiana	1,267,234
	79	Washington, St. Louis	1,259,184
	80	Calif., Irvine	1,177,864
	81	Emory	1,174,764
	82	Massachusetts	1,148,684
	83	Georgetown	1,127,066
	84	Alabama	1,096,010
	85	Temple	1,085,089
	86	Vanderbilt	1,080,357
	87	Johns Hopkins	1,070,066
	88	Oregon	1,068,547
	89	Duke	1,055,627
	90	Brigham Young	1,025,393
	91	Delaware	1,016,480
7	92	Kent State	958,194
	93	Calif., San Diego	950,134
	94	Queen's	943,454
	95	Calif., Riverside	917,757
	96	Chicago	911,979
	97	McMaster	907,958
	98	Notre Dame	836,903
	99	Colorado State	810,040
	100	Guelph	801,998
	101	Brown	778,595
	102	Manitoba	644,772
	103	McGill	567,008
8	104	Case Western Reserve	479,012

RANK ORDER TABLE 4: CURRENT SERIALS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 90,000 and over
2- 80,000-89,999
3- 70,000-79,999
4- 60,000-69,999
5- 50,000-59,999
6- 40,000-49,999
7- 30,000-39,999
8- 20,000-29,999
9- 10,000-19,999
10- under 10,000

Gp	Rank	Institution	Value
1	1	Calif., Berkeley	101,584
	2	Harvard	99,500
	3	Illinois	93,913
2	4	Calif., Los Angeles	80,908
4	5	Michigan	61,464
	6	Texas	61,133
	7	Columbia	60,570
5	8	Cornell	55,094
	9	Yale	52,212
	10	Wisconsin	52,153
	11	Chicago	50,233
6	12	Stanford	46,572
	13	Calif., Davis	46,480
	14	Georgia	45,126
	15	Toronto	42,941
	16	Minnesota	42,930
	17	North Carolina	40,157
7	18	Washington	39,476
	19	Southern California	36,765
	20	Kentucky	35,050
	21	Hawaii	33,889
	22	British Columbia	33,815
	23	Northwestern	32,970
	24	Princeton	32,910
	25	Arizona	32,105
	26	Pennsylvania	31,687
	27	Washington State	31,675
	28	Iowa	30,633
8	29	Duke	29,667
	30	Calif., San Diego	28,883
	31	Kansas	28,487
	32	New York	28,390
	33	Indiana	28,346
	34	Ohio State	27,519
	35	Boston	25,416
	36	Howard	25,078
	37	Virginia	25,021
	38	Tennessee	24,915
	39	Georgia Tech	24,754
	40	Florida	24,563
	41	Pennsylvania State	23,335
	42	SUNY-Buffalo	22,933
	43	Arizona State	22,422
	44	Louisiana State	22,172
	45	Rutgers	21,910
	46	Virginia Polytechnic	21,336
	47	Syracuse	21,232
	48	MIT	20,382
	49	Colorado	20,366
	50	Iowa State	20,098
	51	Pittsburgh	20,094
	52	Michigan State	20,002
9	53	York	19,883
	54	Calif., Santa Barbara	19,811
	55	Southern Illinois	19,709
	56	Maryland	19,441
	57	Missouri	19,207
	58	Western Ontario	18,891
	59	Dartmouth	18,592
	60	Nebraska	18,535
	61	SUNY-Stony Brook	18,463
	62	Cincinnati	18,445
	63	Georgetown	18,367
	64	Miami	18,263
	65	Johns Hopkins	18,097
	66	Emory	17,032
	67	Oregon	17,011
	68	Delaware	16,974
	69	Connecticut	16,969
	70	Texas A & M	16,886
	71	Purdue	16,846
	72	Oklahoma	16,823
	73	North Carolina State	16,616
	74	South Carolina	16,561
	75	Houston	16,375
	76	Brigham Young	16,318
	77	Vanderbilt	15,941
	78	Florida State	15,935
	79	SUNY-Albany	15,660
	80	Colorado State	15,549
	81	Calif., Irvine	15,301
	82	Washington, St. Louis	15,210
	83	Temple	14,881
	84	Alberta	14,605
	85	Brown	14,579
	86	Oklahoma State	14,503
	87	Wayne State	14,448
	88	McGill	14,419
	89	Utah	14,299
	90	Calif., Riverside	14,228
	91	Tulane	14,155
	92	Queen's	13,941
	93	Case Western Reserve	13,461
	94	McMaster	13,424
	95	Massachusetts	13,247
	96	Alabama	12,976
	97	Notre Dame	11,203
	98	Rice	10,862
	99	Manitoba	10,795
10	100	Rochester	9,894
	101	Saskatchewan	9,377
	102	Guelph	9,345
	103	New Mexico	9,317
	104	Kent State	8,718

RANK ORDER TABLE 5: PROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 200 and over
2- 175-199
3- 150-174
4- 125-149
5- 100-124
6- 75- 99
7- 50- 74
8- under 50

Gp	Rank	Institution	Value
1	1	Harvard	280
2	2	Yale	179
3	3	Calif., Los Angeles	163
	4	Stanford	150
	5	Toronto	150
4	6	Calif., Berkeley	145
	7	Columbia	140
	8	Cornell	139
	9	Texas	139
	10	Michigan	136
	11	Wisconsin	129
5	12	Minnesota	123
	13	Illinois	120
	14	Washington	117
	15	British Columbia	111
	16	North Carolina	108
	17	Indiana	105
	18	Northwestern	102
	19	Ohio State	101
6	20	Pennsylvania State	98
	21	Rutgers	96
	22	Princeton	93
	23	Pennsylvania	92
	24	SUNY-Buffalo	91
	25	Duke	90
	26	Howard	89
	27	New York	87
	28	Arizona	86
	29	Florida	86
	30	MIT	86
	31	Virginia	86
	32	Southern California	85
	33	Maryland	82
	34	Pittsburgh	81
	35	Alberta	79
	36	Kansas	75
	37	McGill	75
7	38	Georgia	74
	39	Johns Hopkins	74
	40	Iowa	73
	41	Michigan State	73
	42	Chicago	72
	43	Brigham Young	71
	44	Cincinnati	69
	45	Calif., Davis	68
	46	Brown	66
	47	Temple	66
	48	Manitoba	65
	49	Syracuse	65
	50	Georgetown	64
	51	Kentucky	64
	52	Louisiana State	64
	53	Boston	63
	54	Case Western Reserve	63
	55	South Carolina	63
	56	Hawaii	62
	57	Arizona State	60
	58	Connecticut	60
	59	Rochester	60
	60	Southern Illinois	60
	61	Washington, St. Louis	60
	62	Houston	59
	63	Vanderbilt	58
	64	Florida State	57
	65	Wayne State	57
	66	Miami	56
	67	Western Ontario	56
	68	Calif., San Diego	55
	69	Emory	55
	70	Massachusetts	55
	71	Calif., Santa Barbara	54
	72	Texas A & M	54
	73	Missouri	52
	74	Oklahoma	51
	75	Virginia Polytechnic	51
	76	Nebraska	50
	77	Tennessee	50
	78	Tulane	50
8	79	Iowa State	49
	80	SUNY-Albany	49
	81	York	49
	82	SUNY-Stony Brook	48
	83	Calif., Irvine	47
	84	Utah	46
	85	Alabama	45
	86	New Mexico	45
	87	Oregon	45
	88	Georgia Tech	44
	89	Notre Dame	44
	90	Colorado	43
	91	Colorado State	42
	92	Saskatchewan	42
	93	McMaster	41
	94	North Carolina State	41
	95	Purdue	41
	96	Oklahoma State	40
	97	Queen's	40
	98	Washington State	40
	99	Dartmouth	37
	100	Delaware	36
	101	Rice	36
	102	Guelph	35
	103	Calif., Riverside	32
	104	Kent State	32

RANK ORDER TABLE 6: NONPROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 400 and over
2- 350-399
3- 300-349
4- 250-299
5- 200-249
6- 150-199
7- 100-149
8- 50- 99

Gp	Rank	Institution	Value
1	1	Harvard	526
	2	Toronto	482
2	3	Yale	390
3	4	Stanford	347
	5	Texas	336
	6	British Columbia	310
	7	Calif., Berkeley	302
4	8	Illinois	295
	9	Michigan	293
	10	Columbia	276
	11	Alberta	260
	12	Calif., Los Angeles	256
	13	Pennsylvania State	256
	14	Cornell	253
5	15	Princeton	244
	16	Wisconsin	236
	17	Rutgers	230
	18	Washington	229
	19	Western Ontario	219
	20	McGill	217
	21	Indiana	204
	22	Ohio State	203
6	23	Virginia	196
	24	New York	187
	25	North Carolina	184
	26	Arizona	180
	27	Calif., Davis	179
	28	Johns Hopkins	175
	29	Duke	174
	30	Minnesota	167
	31	Pittsburgh	166
	32	Queen's	164
	33	Purdue	163
	34	Calif., San Diego	159
	35	Georgia	159
	36	Manitoba	159
	37	MIT	158
	38	Pennsylvania	152
	39	Arizona State	151
	40	Maryland	151
7	41	Chicago	149
	42	Howard	149
	43	Florida	148
	44	Northwestern	148
	45	Calif., Santa Barbara	139
	46	McMaster	139
	47	Kansas	136
	48	Southern California	136
	49	SUNY-Buffalo	136
	50	Syracuse	135
	51	Boston	134
	52	Cincinnati	134
	53	York	134
	54	Houston	132
	55	Tennessee	131
	56	Texas A & M	125
	57	Michigan State	123
	58	Washington, St. Louis	122
	59	Guelph	120
	60	Temple	118
	61	Miami	117
	62	Saskatchewan	114
	63	SUNY-Stony Brook	114
	64	Kentucky	113
	65	South Carolina	110
	66	Vanderbilt	110
	67	Missouri	109
	68	Massachusetts	107
	69	North Carolina State	107
	70	Dartmouth	105
	71	Emory	105
	72	Iowa State	105
	73	Nebraska	104
	74	Southern Illinois	104
	75	Louisiana State	102
8	76	New Mexico	99
	77	Brown	98
	78	Hawaii	98
	79	Iowa	98
	80	SUNY-Albany	97
	81	Utah	97
	82	Tulane	95
	83	Virginia Polytechnic	95
	84	Colorado	94
	85	Notre Dame	94
	86	Washington State	94
	87	Florida State	92
	88	Georgetown	92
	89	Rochester	92
	90	Wayne State	92
	91	Delaware	91
	92	Calif., Irvine	89
	93	Kent State	85
	94	Oklahoma	85
	95	Calif., Riverside	84
	96	Oregon	82
	97	Colorado State	75
	98	Connecticut	75
	99	Case Western Reserve	72
	100	Rice	72
	101	Alabama	63
	102	Brigham Young	63
	103	Oklahoma State	55
	104	Georgia Tech	53

RANK ORDER TABLE 7: TOTAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 650 and over
2- 600-649
3- 550-599
4- 500-549
5- 450-499
6- 400-449
7- 350-399
8- 300-349
9- 250-299
10- 200-249
11- 150-199
12- 100-149

Gp	Rank	Institution	Value
1	1	Harvard	944
	2	Toronto	716
	3	Calif., Berkeley	666
2	4	Yale	620
3	5	Michigan	572
	6	Calif., Los Angeles	567
	7	Stanford	566
	8	Texas	557
4	9	Columbia	535
	10	Illinois	534
	11	Wisconsin	501
5	12	Indiana	476
	13	British Columbia	474
	14	Cornell	470
	15	Washington	465
6	16	Ohio State	444
	17	Pennsylvania State	415
	18	Minnesota	410
7	19	Princeton	396
	20	Rutgers	391
	21	Alberta	386
	22	North Carolina	357
	23	Arizona	350
8	24	New York	348
	25	Duke	341
	26	Northwestern	338
	27	Florida	335
	28	Virginia	332
	29	Pittsburgh	323
	30	McGill	322
	31	Maryland	322
	32	Pennsylvania	320
	33	Western Ontario	317
	34	Southern California	315
	35	Brigham Young	309
	36	Chicago	301
	37	Calif., Davis	300
9	38	Michigan State	298
	39	Georgia	297
	40	SUNY-Buffalo	287
	41	Johns Hopkins	286
	42	MIT	279
	43	Arizona State	278
	44	Cincinnati	277
	45	Kansas	272
	46	Calif., San Diego	267
	47	Howard	266
	48	Boston	263
	49	Syracuse	262
	50	Calif., Santa Barbara	253
	51	Purdue	253
	52	Southern Illinois	252
10	53	Georgetown	247
	54	Manitoba	246
	55	Houston	242
	56	Miami	239
	57	Temple	237
	58	Vanderbilt	236
	59	Texas A & M	235
	60	Iowa	234
	61	Kentucky	232
	62	Queen's	230
	63	Hawaii	227
	64	Louisiana State	227
	65	Tennessee	226
	66	Washington, St. Louis	222
	67	York	221
	68	Rochester	215
	69	Brown	212
	70	Massachusetts	212
	71	Utah	210
	72	SUNY-Stony Brook	209
	73	Florida State	206
	74	Calif., Irvine	205
	75	New Mexico	205
	76	Missouri	204
	77	Emory	203
	78	South Carolina	203
	79	Iowa State	202
11	80	Oklahoma	198
	81	Washington State	198
	82	Tulane	197
	83	McMaster	196
	84	Wayne State	196
	85	Connecticut	191
	86	Colorado	186
	87	North Carolina State	186
	88	Nebraska	184
	89	Oregon	180
	90	Saskatchewan	175
	91	Dartmouth	172
	92	Case Western Reserve	171
	93	Guelph	170
	94	SUNY-Albany	170
	95	Alabama	167
	96	Virginia Polytechnic	167
	97	Kent State	163
	98	Delaware	156
	99	Notre Dame	154
	100	Oklahoma State	154
12	101	Calif., Riverside	148
	102	Colorado State	147
	103	Rice	128
	104	Georgia Tech	113

RANK ORDER TABLE 8: MATERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 5,000 and over
2- 4,500-4,999
3- 4,000-4,499
4- 3,500-3,999
5- 3,000-3,499
6- 2,500-2,999
7- 2,000-2,499
8- 1,500-1,999
9- 1,000-1,499
10- under 1,000

Gp	Rank	Institution	Value
1	1	Harvard	6,251,797
	2	Texas	6,200,024
2	3	Calif., Los Angeles	4,960,478
	4	Stanford	4,631,057
3	5	Toronto	4,403,420
	6	Calif., Berkeley	4,313,694
	7	Michigan	4,268,564
	8	Yale	4,111,500
4	9	Ohio State	3,989,869
	10	Washington	3,971,429
	11	Cornell	3,744,400
	12	Calif., Davis	3,637,044
	13	Wisconsin	3,543,073
	14	Illinois	3,522,005
5	15	Minnesota	3,453,396
	16	North Carolina	3,441,258
	17	Columbia	3,325,112
	18	Louisiana State	3,309,250
	19	Howard	3,206,316
	20	Arizona	3,194,650
	21	Princeton	3,171,448
	22	Indiana	3,165,486
	23	British Columbia	3,153,525
	24	Iowa	3,141,842
6	25	Virginia	2,886,476
	26	Georgia	2,854,541
	27	Pennsylvania State	2,839,766
	28	Southern California	2,820,361
	29	Arizona State	2,812,846
	30	Kansas	2,773,122
	31	Duke	2,700,586
	32	Alberta	2,660,505
	33	New York	2,632,451
	34	Rutgers	2,560,961
	35	Florida	2,555,757
	36	Calif., San Diego	2,515,033
	37	Chicago	2,504,372
7	38	Northwestern	2,476,552
	39	Calif., Irvine	2,375,238
	40	Calif., Santa Barbara	2,321,075
	41	Kentucky	2,300,841
	42	Maryland	2,287,994
	43	Michigan State	2,279,658
	44	SUNY-Buffalo	2,264,228
	45	Cincinnati	2,256,060
	46	Western Ontario	2,246,251
	47	Iowa State	2,192,378
	48	Pittsburgh	2,182,612
	49	Johns Hopkins	2,175,457
	50	Tulane	2,168,437
	51	McMaster	2,153,238
	52	Boston	2,148,524
	53	Emory	2,114,835
	54	Pennsylvania	2,108,386
	55	Hawaii	2,104,712
	56	Houston	2,103,484
	57	Washington State	2,092,692
	58	Delaware	2,085,967
	59	Texas A & M	2,077,193
	60	Missouri	2,041,097
	61	Oregon	2,034,426
	62	Georgetown	2,022,798
8	63	North Carolina State	1,990,418
	64	Virginia Polytechnic	1,964,000
	65	SUNY-Stony Brook	1,929,767
	66	Miami	1,927,882
	67	Oklahoma	1,927,508
	68	Washington, St. Louis	1,914,895
	69	Alabama	1,888,852
	70	McGill	1,852,889
	71	Colorado	1,839,710
	72	Connecticut	1,837,211
	73	Syracuse	1,809,504
	74	Rochester	1,807,481
	75	Purdue	1,774,764
	76	Southern Illinois	1,763,527
	77	Florida State	1,723,455
	78	Saskatchewan	1,721,078
	79	Queen's	1,720,700
	80	Brown	1,716,489
	81	Nebraska	1,712,881
	82	Massachusetts	1,702,717
	83	MIT	1,692,225
	84	Utah	1,691,511
	85	Manitoba	1,687,732
	86	Vanderbilt	1,678,232
	87	York	1,630,988
	88	Calif., Riverside	1,596,356
	89	Tennessee	1,592,719
	90	Wayne State	1,579,326
	91	Dartmouth	1,578,641
	92	South Carolina	1,555,760
	93	SUNY-Albany	1,555,223
	94	Oklahoma State	1,515,737
	95	Rice	1,509,483
9	96	Temple	1,478,626
	97	Guelph	1,455,354
	98	Notre Dame	1,452,296
	99	New Mexico	1,430,885
	100	Georgia Tech	1,290,196
	101	Case Western Reserve	1,242,712
	102	Colorado State	1,213,803
10	103	Kent State	850,914

Brigham Young figure not published.

RANK ORDER TABLE 9: MATERIALS AND BINDING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	5,000 and over	6-	2,500-2,999
2-	4,500-4,999	7-	2,000-2,499
3-	4,000-4,499	8-	1,500-1,999
4-	3,500-3,999	9-	1,000-1,499
5-	3,000-3,499	10-	under 1,000

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	6,807,383		51	Tulane	2,263,999
	2	Texas	6,369,831		52	Johns Hopkins	2,249,920
	3	Calif., Los Angeles	5,525,491		53	Emory	2,228,432
					54	Houston	2,220,060
2	4	Stanford	4,920,380		55	McMaster	2,213,337
	5	Calif., Berkeley	4,912,900		56	Texas A & M	2,207,921
	6	Toronto	4,589,751		57	Delaware	2,201,037
					58	Missouri	2,199,095
3	7	Michigan	4,499,142		59	Washington State	2,193,612
	8	Yale	4,368,600		60	Hawaii	2,163,723
	9	Washington	4,191,971		61	Georgetown	2,133,386
	10	Ohio State	4,131,350		62	Virginia Polytechnic	2,130,400
					63	Oregon	2,115,267
4	11	Cornell	3,993,503		64	North Carolina State	2,104,027
	12	Calif., Davis	3,941,194		65	Miami	2,036,626
	13	Minnesota	3,791,522		66	Washington, St. Louis	2,019,650
	14	Wisconsin	3,721,673		67	SUNY-Stony Brook	2,006,087
	15	Columbia	3,677,918		68	Oklahoma	2,002,871
	16	Illinois	3,677,175				
	17	North Carolina	3,642,700	8	69	McGill	1,988,400
					70	Alabama	1,979,837
5	18	Louisiana State	3,465,165		71	Colorado	1,959,792
	19	Princeton	3,422,066		72	Connecticut	1,931,932
	20	Arizona	3,419,202		73	Rochester	1,908,557
	21	Howard	3,383,854		74	Syracuse	1,894,504
	22	Indiana	3,345,187		75	Purdue	1,880,646
	23	Iowa	3,335,542		76	Southern Illinois	1,870,204
	24	British Columbia	3,292,491		77	Brown	1,846,501
	25	Virginia	3,070,260		78	Florida State	1,813,657
	26	Georgia	3,059,610		79	MIT	1,808,498
					80	Queen's	1,801,561
6	27	Pennsylvania State	2,990,859		81	Manitoba	1,799,854
	28	Arizona State	2,975,641		82	Nebraska	1,797,145
	29	Southern California	2,944,876		83	Utah	1,788,327
	30	Duke	2,870,538		84	Saskatchewan	1,774,524
	31	Kansas	2,870,257		85	Vanderbilt	1,768,721
	32	New York	2,813,371		86	Massachusetts	1,758,270
	33	Rutgers	2,812,171		87	York	1,723,744
	34	Alberta	2,810,687		88	Calif., Riverside	1,710,389
	35	Calif., San Diego	2,749,612		89	Tennessee	1,689,919
	36	Chicago	2,727,757		90	Wayne State	1,682,604
	37	Florida	2,722,462		91	South Carolina	1,659,535
	38	Northwestern	2,590,304		92	Dartmouth	1,634,964
	39	Calif., Irvine	2,564,107		93	SUNY-Albany	1,606,223
	40	Calif., Santa Barbara	2,523,516		94	Oklahoma State	1,598,098
					95	Temple	1,569,313
7	41	Maryland	2,452,510		96	Notre Dame	1,568,436
	42	Michigan State	2,436,174		97	Rice	1,559,006
	43	Pennsylvania	2,404,428		98	New Mexico	1,515,240
	44	SUNY-Buffalo	2,399,838		99	Guelph	1,501,424
	45	Cincinnati	2,393,184				
	46	Kentucky	2,388,887	9	100	Georgia Tech	1,383,382
	47	Pittsburgh	2,354,941		101	Case Western Reserve	1,317,374
	48	Western Ontario	2,335,903		102	Colorado State	1,293,932
	49	Iowa State	2,317,462				
	50	Boston	2,278,902	10	103	Kent State	914,171

Brigham Young figure not published.

RANK ORDER TABLE 10: SALARIES AND WAGES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 10,000 and over	6- 5,000-5,999
2- 9,000-9,999	7- 4,000-4,999
3- 8,000-8,999	8- 3,000-3,999
4- 7,000-7,999	9- 2,000-2,999
5- 6,000-6,999	10- 1,000-1,999

Gp	Rank	Institution	Value
1	1	Harvard	14,018,278
	2	Toronto	11,665,104
	3	Calif., Berkeley	11,554,736
	4	Stanford	10,823,140
	5	Calif., Los Angeles	10,554,410
2	6	Yale	9,218,900
3	7	Columbia	8,256,261
	8	Texas	8,250,140
4	9	British Columbia	7,664,149
	10	Michigan	7,565,239
	11	Wisconsin	7,267,140
	12	Minnesota	7,049,057
5	13	Illinois	6,984,143
	14	Cornell	6,719,577
	15	Alberta	6,621,145
	16	Rutgers	6,597,629
	17	Ohio State	6,099,506
	18	Washington	6,056,263
6	19	Pennsylvania State	5,943,909
	20	Princeton	5,856,673
	21	Indiana	5,677,990
	22	McGill	5,584,632
	23	Howard	5,253,799
	24	New York	5,159,537
	25	Pennsylvania	5,126,224
	26	North Carolina	5,108,007
7	27	Calif., Davis	4,959,402
	28	Northwestern	4,737,447
	29	Virginia	4,719,966
	30	Chicago	4,711,380
	31	Arizona	4,511,024
	32	Southern California	4,486,352
	33	Duke	4,302,483
	34	Maryland	4,298,147
	35	Calif., San Diego	4,246,766
	36	Calif., Santa Barbara	4,226,207
	37	Pittsburgh	4,221,082
	38	Western Ontario	4,200,276
	39	Cincinnati	4,108,150
	40	Michigan State	4,020,593
8	41	MIT	3,885,102
	42	SUNY-Buffalo	3,872,521
	43	Kansas	3,786,157
	44	Florida	3,784,459
	45	Hawaii	3,775,501
	46	Manitoba	3,732,654
	47	Johns Hopkins	3,647,874
	48	Iowa	3,602,773
	49	Southern Illinois	3,573,302
	50	Georgia	3,489,983
	51	Georgetown	3,404,949
	52	York	3,377,268
	53	Kentucky	3,301,072
	54	Temple	3,290,547
	55	Arizona State	3,281,351
	56	Connecticut	3,260,193
	57	Massachusetts	3,219,864
	58	Wayne State	3,214,336
	59	Calif., Irvine	3,169,348
	60	Purdue	3,136,412
	61	Syracuse	3,127,613
	62	Boston	3,098,501
	63	Louisiana State	3,091,030
	64	Colorado	3,062,593
9	65	Miami	2,966,597
	66	Texas A & M	2,957,942
	67	Queen's	2,884,191
	68	Washington, St. Louis	2,860,639
	69	McMaster	2,851,837
	70	Rochester	2,843,403
	71	Iowa State	2,828,877
	72	Saskatchewan	2,818,865
	73	Houston	2,768,281
	74	Oklahoma	2,741,011
	75	Emory	2,710,582
	76	Brown	2,688,839
	77	Utah	2,682,992
	78	Vanderbilt	2,666,957
	79	Tennessee	2,622,297
	80	Missouri	2,612,137
	81	SUNY-Stony Brook	2,605,288
	82	Washington State	2,592,421
	83	South Carolina	2,508,741
	84	Guelph	2,500,092
	85	Virginia Polytechnic	2,488,700
	86	New Mexico	2,488,563
	87	Calif., Riverside	2,442,049
	88	Oregon	2,437,193
	89	North Carolina State	2,373,316
	90	SUNY-Albany	2,276,725
	91	Case Western Reserve	2,259,056
	92	Kent State	2,252,272
	93	Colorado State	2,245,844
	94	Tulane	2,218,441
	95	Nebraska	2,175,040
	96	Notre Dame	2,161,511
	97	Florida State	2,116,975
	98	Dartmouth	2,083,648
	99	Delaware	1,842,834
10	100	Oklahoma State	1,699,334
	101	Rice	1,685,340
	102	Alabama	1,640,703
	103	Georgia Tech	1,617,316

Brigham Young figure not published.

RANK ORDER TABLE 11: TOTAL OPERATING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 14,000 and over
2- 13,000-13,999
3- 12,000-12,999
4- 11,000-11,999
5- 10,000-10,999
6- 9,000-9,999
7- 8,000-8,999
8- 7,000-7,999
9- 6,000-6,999
10- 5,000-5,999
11- 4,000-4,999
12- 3,000-3,999

Gp	Rank	Institution	Value
1	1	Harvard	22,932,264
	2	Calif., Los Angeles	18,810,126
	3	Calif., Berkeley	18,548,293
	4	Stanford	18,197,484
	5	Toronto	17,428,636
	6	Yale	16,088,000
	7	Texas	15,953,048
2	8	Michigan	13,583,410
	9	Columbia	13,413,639
3	10	Cornell	12,462,438
	11	Wisconsin	12,424,555
	12	Minnesota	12,079,384
4	13	British Columbia	11,941,996
	14	Illinois	11,921,636
	15	Howard	11,896,362
	16	Ohio State	11,698,290
	17	Washington	11,226,228
5	18	Alberta	10,543,759
	19	Pennsylvania State	10,345,293
	20	Princeton	10,273,148
	21	Rutgers	10,198,782
6	22	Calif., Davis	9,752,412
	23	Indiana	9,667,697
	24	North Carolina	9,571,099
	25	New York	9,320,592
7	26	Arizona	8,987,912
	27	Chicago	8,767,800
	28	Virginia	8,746,511
	29	Pennsylvania	8,595,665
	30	Southern California	8,360,002
	31	Northwestern	8,012,427
	32	McGill	8,001,650
8	33	Calif., San Diego	7,955,083
	34	Johns Hopkins	7,873,550
	35	Florida	7,794,701
	36	Duke	7,701,373
	37	Kansas	7,664,747
	38	Maryland	7,620,422
	39	Michigan State	7,526,223
	40	Calif., Santa Barbara	7,461,780
	41	Iowa	7,261,777
	42	Cincinnati	7,241,879
	43	Pittsburgh	7,197,887
	44	SUNY-Buffalo	7,044,486
9	45	Louisiana State	6,964,191
	46	Georgia	6,896,480
	47	Western Ontario	6,715,772
	48	Arizona State	6,710,110
	49	Washington, St. Louis	6,547,231
	50	Georgetown	6,539,104
	51	MIT	6,465,202
	52	Boston	6,279,706
	53	Hawaii	6,227,909
	54	Kentucky	6,152,707
	55	Calif., Irvine	6,152,425
	56	Syracuse	6,150,434
	57	Southern Illinois	6,008,875
10	58	Texas A & M	5,917,834
	59	Manitoba	5,904,196
	60	Wayne State	5,839,239
	61	York	5,713,319
	62	Miami	5,703,623
	63	Connecticut	5,697,201
	64	Brown	5,586,804
	65	Purdue	5,558,330
	66	Emory	5,534,726
	67	Iowa State	5,504,532
	68	Washington State	5,492,325
	69	Houston	5,432,444
	70	Oklahoma	5,394,049
	71	Vanderbilt	5,385,921
	72	McMaster	5,380,873
	73	Colorado	5,343,588
	74	Temple	5,328,701
	75	Rochester	5,279,411
	76	Missouri	5,225,020
	77	Massachusetts	5,206,949
	78	Virginia Polytechnic	5,198,300
	79	Utah	5,172,114
	80	Tulane	5,051,633
	81	SUNY-Stony Brook	5,026,753
11	82	Tennessee	4,959,488
	83	Queen's	4,934,947
	84	South Carolina	4,921,616
	85	Saskatchewan	4,886,052
	86	North Carolina State	4,854,625
	87	Oregon	4,819,565
	88	Calif., Riverside	4,603,809
	89	Nebraska	4,574,231
	90	Delaware	4,372,803
	91	Dartmouth	4,372,286
	92	SUNY-Albany	4,296,444
	93	New Mexico	4,248,759
	94	Guelph	4,231,434
	95	Kent State	4,182,864
	96	Florida State	4,175,331
	97	Notre Dame	4,135,026
	98	Case Western Reserve	4,036,617
	99	Alabama	4,011,437
12	100	Colorado State	3,953,285
	101	Rice	3,705,777
	102	Oklahoma State	3,674,461
	103	Georgia Tech	3,544,448

Brigham Young figure not published.

RANK ORDER TABLE 12: TOTAL ITEMS LOANED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 50,000 and over	7- 20,000-24,999
2- 45,000-49,999	8- 15,000-19,999
3- 40,000-44,999	9- 10,000-14,999
4- 35,000-39,999	10- 5,000-9,999
5- 30,000-34,999	11- under 5,000
6- 25,000-29,999	

Gp	Rank	Institution	Value
1	1	Minnesota	154,985
	2	Illinois	127,470
	3	Washington	93,161
	4	Wisconsin	89,843
	5	Case Western Reserve	57,659
4	6	Calif., Los Angeles	38,962
5	7	Texas A & M	33,982
	8	Arizona	33,475
	9	Southern Illinois	33,067
	10	Wayne State	32,601
	11	Harvard	32,453
	12	Iowa	31,754
	13	Indiana	31,593
	14	Kansas	31,442
	15	Calif., Davis	30,209
6	16	Calif., Berkeley	29,429
	17	Ohio State	29,054
	18	Pittsburgh	28,390
	19	Cincinnati	27,278
	20	McGill	27,069
	21	Georgia	25,547
7	22	Chicago	24,151
	23	North Carolina State	23,986
	24	Duke	22,999
	25	Emory	22,879
	26	Missouri	22,002
	27	Rutgers	21,371
	28	Connecticut	21,306
	29	Florida	20,699
	30	Michigan	20,673
	31	MIT	20,191
8	32	Cornell	19,551
	33	SUNY-Buffalo	19,433
	34	North Carolina	18,935
	35	Stanford	18,433
	36	Iowa State	18,386
	37	Calif., Santa Barbara	18,326
	38	British Columbia	17,257
	39	Toronto	16,702
	40	Columbia	16,476
	41	Arizona State	15,869
	42	Washington, St. Louis	15,808
	43	SUNY-Stony Brook	15,746
	44	Rochester	15,730
	45	Kentucky	15,630
	46	Calif., San Diego	15,439
	47	Johns Hopkins	15,255
	48	Tennessee	15,212
	49	Virginia Polytechnic	15,196
9	50	Texas	14,475
	51	Georgia Tech	14,377
	52	Oklahoma	13,690
	53	SUNY-Albany	13,477
	54	Pennsylvania State	13,429
	55	Alberta	12,472
	56	Vanderbilt	12,375
	57	Miami	12,303
	58	Oregon	12,297
	59	Calif., Irvine	12,291
	60	Manitoba	11,992
	61	Florida State	11,718
	62	South Carolina	11,461
	63	Yale	11,444
	64	Western Ontario	11,216
	65	Hawaii	11,095
	66	Nebraska	10,614
	67	Northwestern	10,581
	68	Rice	10,526
	69	Maryland	10,483
	70	Oklahoma State	10,482
	71	Colorado State	10,248
	72	Colorado	10,035
	73	Massachusetts	10,022
10	74	York	9,175
	75	New York	9,094
	76	Delaware	8,823
	77	Purdue	8,780
	78	Utah	8,769
	79	Pennsylvania	8,694
	80	Temple	8,005
	81	McMaster	7,780
	82	Houston	7,682
	83	Tulane	7,565
	84	Princeton	7,104
	85	Louisiana State	6,853
	86	Michigan State	6,840
	87	Virginia	6,779
	88	Dartmouth	6,529
	89	New Mexico	6,419
	90	Southern California	6,199
	91	Alabama	6,103
	92	Georgetown	5,954
	93	Saskatchewan	5,713
	94	Calif., Riverside	5,602
	95	Boston	5,553
	96	Brown	5,401
	97	Brigham Young	5,376
	98	Kent State	5,350
11	99	Notre Dame	4,810
	100	Queen's	3,900
	101	Guelph	3,362
	102	Syracuse	2,893
	103	Howard	2,602
	104	Washington State	847

RANK ORDER TABLE 13: TOTAL ITEMS BORROWED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 17,000 and over
2- 15,000-16,999
3- 13,000-14,999
4- 11,000-12,999
5- 9,000-10,999
6- 7,000-8,999
7- 5,000-6,999
8- 3,000-4,999
9- 1,000-2,999
10- under 1,000

Gp	Rank	Institution	Value
1	1	Illinois	68,049
	2	Wisconsin	30,314
2	3	Kansas	16,292
3	4	Arizona State	14,790
	5	Johns Hopkins	14,516
	6	Minnesota	14,061
	7	Oklahoma	14,038
	8	Calif., Berkeley	13,218
4	9	SUNY-Albany	11,136
5	10	Florida	10,890
	11	Texas A & M	10,357
	12	Calif., Santa Barbara	10,000
	13	Cincinnati	9,734
	14	Michigan	9,633
6	15	Kent State	8,889
	16	Pennsylvania State	8,876
	17	Ohio State	8,840
	18	Calif., Los Angeles	8,685
	19	Pennsylvania	8,296
	20	Texas	8,237
	21	Case Western Reserve	8,199
	22	Calif., Irvine	8,129
	23	Kentucky	8,127
	24	Calif., Riverside	8,119
	25	Northwestern	7,979
	26	Indiana	7,927
	27	Saskatchewan	7,918
	28	Utah	7,837
	29	Brigham Young	7,678
	30	McGill	7,564
	31	New York	7,557
	32	Connecticut	7,524
	33	Alberta	7,362
	34	Boston	7,292
	35	Toronto	7,178
	36	Colorado State	7,177
	37	British Columbia	7,093
7	38	Missouri	6,852
	39	Rutgers	6,832
	40	Massachusetts	6,795
	41	Stanford	6,738
	42	Manitoba	6,648
	43	SUNY-Buffalo	6,629
	44	Washington, St. Louis	6,585
	45	Calif., San Diego	6,527
	46	Miami	6,486
	47	Yale	6,439
	48	Tulane	6,360
	49	Dartmouth	6,337
	50	Colorado	6,232
	51	Queen's	6,227
	52	McMaster	6,217
	53	Arizona	6,183
	54	Pittsburgh	5,863
	55	Calif., Davis	5,769
	56	Iowa	5,740
	57	Harvard	5,725
	58	Rochester	5,693
	59	Cornell	5,621
	60	Guelph	5,425
	61	Columbia	5,194
	62	Purdue	5,164
	63	SUNY-Stony Brook	5,132
	64	Emory	5,107
8	65	Georgia	4,997
	66	Duke	4,850
	67	Houston	4,806
	68	Oklahoma State	4,803
	69	Vanderbilt	4,762
	70	Oregon	4,584
	71	Iowa State	4,562
	72	Southern Illinois	4,547
	73	MIT	4,455
	74	Washington	4,382
	75	Florida State	4,355
	76	Nebraska	4,282
	77	Princeton	4,266
	78	North Carolina	4,174
	79	Syracuse	4,144
	80	Georgetown	4,050
	81	Michigan State	3,990
	82	Tennessee	3,968
	83	Brown	3,879
	84	York	3,878
	85	South Carolina	3,875
	86	New Mexico	3,874
	87	Temple	3,829
	88	Alabama	3,826
	89	Western Ontario	3,825
	90	Chicago	3,718
	91	Virginia Polytechnic	3,326
	92	Louisiana State	3,212
	93	North Carolina State	3,206
9	94	Notre Dame	2,997
	95	Wayne State	2,983
	96	Delaware	2,736
	97	Virginia	2,689
	98	Hawaii	2,518
	99	Southern California	2,100
	100	Maryland	2,086
	101	Georgia Tech	1,996
	102	Rice	1,834
	103	Howard	1,244
10	104	Washington State	316

RANK ORDER TABLE 14: CURRENT SERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 2,300 and over
2- 2,100-2,299
3- 1,900-2,099
4- 1,700-1,899
5- 1,500-1,699
6- 1,300-1,499
7- 1,100-1,299
8- 900-1,099
9- 700-899
10- under 700

Gp	Rank	Institution	Value
1	1	Harvard	2,863,190
2	2	Stanford	2,293,307
	3	Washington	2,279,494
	4	Michigan	2,276,512
	5	Calif., Los Angeles	2,254,754
	6	Calif., Berkeley	2,248,788
3	7	Texas	2,079,845
	8	Toronto	1,945,063
	9	Illinois	1,934.842
	10	Iowa	1,910,206
4	11	Columbia	1,896,788
	12	Minnesota	1,870,362
	13	Calif., Davis	1,830,305
	14	Rutgers	1,790,384
	15	Wisconsin	1,779,688
	16	New York	1,763,516
	17	Yale	1,759,600
	18	Georgia	1,726,194
	19	Southern California	1,717,069
	20	Howard	1,709,183
5	21	Arizona	1,678,237
	22	Pennsylvania State	1,603,887
	23	Duke	1,530,357
	24	Ohio State	1,530,300
	25	Arizona State	1,508,188
6	26	SUNY-Buffalo	1,499,924
	27	Northwestern	1,475,982
	28	Florida	1,471,077
	29	Princeton	1,465,069
	30	Virginia	1,446,562
	31	Kansas	1,441,813
	32	Louisiana State	1,440,965
	33	North Carolina	1,439,349
	34	Kentucky	1,428,876
	35	Missouri	1,363,650
	36	Chicago	1,353,392
	37	Cincinnati	1,331,243
	38	Indiana	1,330,154
	39	Oklahoma	1,326,647
7	40	Connecticut	1,290,171
	41	Maryland	1,278,886
	42	Washington, St. Louis	1,274,351
	43	Boston	1,255,959
	44	Hawaii	1,251,400
	45	Southern Illinois	1,232,542
	46	Johns Hopkins	1,229,230
	47	Virginia Polytechnic	1,228,800
	48	Iowa State	1,221,621
	49	Purdue	1,219,445
	50	Washington State	1,216,758
	51	Pennsylvania	1,215,140
	52	Calif., San Diego	1,210,721
	53	Texas A & M	1,209,091
	54	SUNY-Stony Brook	1,187,676
	55	Nebraska	1,153,186
	56	Emory	1,136,399
	57	Calif., Irvine	1,135,934
	58	Michigan State	1,134,803
	59	Colorado	1,115,363
	60	Dartmouth	1,114,611
	61	SUNY-Albany	1,110,562
	62	Houston	1,100,556
8	63	Tennessee	1,094,223
	64	Western Ontario	1,092,302
	65	MIT	1,077,599
	66	Rochester	1,074,587
	67	Calif., Santa Barbara	1,064,917
	68	McGill	1,060,078
	69	Miami	1,055,346
	70	Tulane	1,050,070
	71	Temple	1,043,131
	72	McMaster	1,040,421
	73	Vanderbilt	1,039,747
	74	Florida State	1,036,566
	75	Alberta	1,034,139
	76	Saskatchewan	1,032,472
	77	Syracuse	1,029,495
	78	North Carolina State	973,211
	79	Oregon	957,957
	80	Delaware	946,576
	81	Rice	926,465
	82	Manitoba	901,595
9	83	Oklahoma State	892,980
	84	Queen's	858,559
	85	Wayne State	855,591
	86	Case Western Reserve	853,602
	87	Georgia Tech	845,294
	88	Brown	843,563
	89	Pittsburgh	819,834
	90	Georgetown	816,273
	91	Alabama	812,137
	92	Massachusetts	800,342
	93	Calif., Riverside	775,232
	94	Colorado State	770,000
	95	South Carolina	758,884
	96	New Mexico	727,698
	97	Notre Dame	715,372
	98	Utah	705,669
10	99	Guelph	635,779
	100	York	615,521
	101	Kent State	474,774

Figures for British Columbia and Cornell not available; figure for Brigham Young not published.

Association of Research Libraries
1527 New Hampshire Avenue, N.W., Washington, D.C. 20036 (202) 232-2466

ARL STATISTICS 1982-83

Instructions for Completion of the Questionnaire

1. Definitions of the statistical categories used in this questionnaire can be found in Library Statistics: A Handbook of Concepts, Definitions and Terminology (Chicago: American Library Association, 1966).

2. All figures should be rounded to the nearest whole number.

3. In a university which includes both main and branch campuses, an effort should be made to report figures for the main campus only. (The U.S. National Center for Education Statistics in its Higher Education General Information Survey describes a branch campus as one "located in a community different from that of its parent institution ... beyond a reasonable commuting distance from the main campus ... The educational activities at the location must be organized on a relatively permanent basis ... and include course offerings for one or more complete college-level programs of at least one full year.") If figures for libraries located on branch campuses are reported, please provide an explanatory footnote on p. 3 of the questionnaire.

4. Questions 1-5. Use the ALA definition for "Volume" as noted in instruction 1 above. Include duplicates and bound volumes of periodicals. Exclude microforms, nonprint materials, uncataloged items, and government documents unless cataloged. (Government document volumes classed separately may be included if cataloged.) If any of these items must be included, please provide an explanatory footnote on p. 3 of the questionnaire.

5. Question 6. Include duplicate subscriptions and government document serials. Because of the number of questions raised regarding the counting of serials, we call to your attention the definition to be used for this survey.

   > Publications constituting one issue in a continuous series under the same title published at regular or irregular intervals, over an indefinite period, individual issues in the series being numbered consecutively or each issue being dated. Newspapers as well as publications appearing annually or less frequently are included in the definition.

6. Questions 12-15 - Personnel. Report the number of staff in filled positions, or positions which are only temporarily vacant. Include staff hired for special projects and grants, but provide an explanatory footnote indicating the number of such staff on p. 3 of the questionnaire. The number of FTE staff should be determined on the basis of the length of the work week in the reporting library. Round figures to the nearest whole numbers.

7. Question 12. Since the criteria for determining professional status vary among libraries, there is no attempt to define the term "professional." Each library should report those staff members it considers professional, including, when appropriate, staff who are not librarians in the strict sense of the term, such as computer experts, systems analysts, budget officers, etc.

8. Questions 16-22 - Expenditures. Report all expenditures, regardless of whether the funds come from the regular library budget or from special funds, such as research grants. When special project or grant funds are included, please provide a footnote indicating the amount of such funds on p. 3 of the questionnaire. Include federal funds for work study students. The questionnaire assumes a fiscal year ending June 30, 1982. If your fiscal year is different, please provide a footnote on p. 3 of the questionnaire.

   Canadian libraries should report expenditures in both Canadian and U.S. dollars. To determine figures in U.S. dollars, divide Canadian dollar amounts by 1.2349, the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1982 - June 1983.

9. Question 20. Exclude fringe benefits.

10. Question 21. Report net expenditures after any cost recovery. Exclude expenditures for buildings and maintenance.

11. Questions 25-26 - Ph.D. Degrees. Please note that only the number of Ph.D. degrees are to be counted. Statistics on all other advanced degrees (e.g., D.Ed., D.P.A., M.D., J.D.) are not required for this survey. If you are unable to provide a figure for Ph.D.s only, please note this in a footnote on p. 3 of the questionnaire.

12. Question 26. For the purposes of this report, Ph.D. fields are equivalent to the several hundred specific discipline specialties enumerated in the form used by the U.S. Department of Education entitled, "Higher Education General Information Survey, Degrees . . . Conferred," designated as NCES Form 2300-2.1A-1. This year NCES is initiating a major change in the breakdown of disciplines used in the form by introducing a new classification that provides about three times as many subject categories. Therefore, the number of Ph.D. fields reported for your institution may be greater than in previous years.

    Although the HEGIS form requests figures for all doctoral degrees, only fields in which Ph.D.s are awarded should be reported on the ARL questionnaire. Any exceptions should be noted in a footnote on p. 3 of the questionnaire.

13. Questions 27-30 - Enrollment. U.S. libraries should use figures reported to the Department of Education on the form entitled "Higher Education General Information Survey, Fall Enrollment and Compliance Report . . . 1982," designated as NCES Form 2300-2.3A. The line and column numbers on the HEGIS form for each category are noted on the questionnaire.

14. Reporting libraries are urged to record in the footnote section any information that would clarify the figures submitted, e.g., the inclusion of branch campus libraries. Explanatory footnotes will be included with the published statistics. Please make an effort to word your footnotes in a manner consistent with notes appearing in the published report, so that the ARL Office can interpret your footnotes correctly.

15. After the questionnaire has been completed please compare the figures with those submitted last year. On occasion, an error will be detected because of an unusual difference between numbers submitted this year and those for the preceding year.

16. Return one copy of the questionnaire to the ARL Office by October 3, 1983. If there are any questions about the procedure to be followed in completing this questionnaire, contact the ARL Office.

Association of Research Libraries
1527 New Hampshire Avenue, N.W., Washington, D.C. 20036 (202) 232-2466

ARL STATISTICS QUESTIONNAIRE, 1982-83

Reporting Library _____

Questionnaire Completed by (Name) _____

Phone Number _____ Date Returned to ARL _____

COLLECTIONS (See instructions 4-5)

1. Volumes held June 30, 1982 (Exclude microforms and govt. docs.)
   (Record figure reported last year or footnote adjusted figure on p.3) _____
2. Volumes added during year - Gross
   (Exclude microforms and govt. docs.) _____
3. Volumes withdrawn during year
   (Exclude microforms and govt. docs.) _____
4. Volumes added during year - Net (Subtract line 3 from line 2) _____
5. Volumes held June 30, 1983 (Add line 1 to line 4) _____
6. Number of current serials, including periodicals, received
   (See instruction 5) _____
7. Reels of microfilm held June 30, 1983 _____
8. Number of microcards held June 30, 1983 _____
9. Number of microprint sheets held June 30, 1983 _____
10. Number of microfiche sheets held June 30, 1983 _____
11. Total microform units held June 30, 1983 (Add lines 7, 8, 9, 10) _____

PERSONNEL (See instructions 6-7) (Round figures to nearest whole number)

12. Number of professional staff, FTE _____
13. Number of nonprofessional staff, FTE _____
14. Number of student assistants, FTE _____
15. Total FTE staff (Add lines 12, 13, 14) _____

ARL Statistics Questionnaire - Page 2

	Dollars Canadian (Canadian libraries only)	Dollars U.S. (Divide Canadian dollars by 1.2349)
EXPENDITURES (See instructions 8-10)		
16. Books, serials and other library materials	_____	_____
17. Current serials including periodicals (See instruction 5) (Subtotal of 16)	_____	_____
18. Binding	_____	_____
19. Total library materials and binding (Add lines 16, 18)	_____	_____
20. Total salaries and wages, including student assistants' wages (omit fringe benefits)	_____	_____
21. Other operating expenditures (See instruction 10)	_____	_____
22. Total library expenditures (Add lines 19, 20, 21)	_____	_____

INTERLIBRARY LOANS

23. Items loaned: Originals _____; Photocopies _____; Total _____

24. Items borrowed: Originals _____; Photocopies _____; Total _____

PH.D. DEGREES (See instructions 11-12)

25. Number of Ph.D.s awarded _____

26. Number of fields in which Ph.D.s can be awarded _____

ENROLLMENT - FALL 1982 (See instruction 13)

27. Total full-time students (line 14, columns 13 and 14) _____

28. Total FTE part-time students (line 28, column 15) _____

29. Total full-time graduate students (line 11, columns 13 and 14) _____

30. Total FTE part-time graduate students (line 25, column 15) _____

FOOTNOTES FOR ARL STATISTICS, 1982-83

(Compare with footnotes from previous year as they appear in the published ARL Statistics.)

. Law Library statistics are included.

☐ Yes ☐ No ☐ We do not have a Law Library.

. Medical Library statistics are included.

☐ Yes ☐ No ☐ We do not have a Medical Library.

. Other libraries not included:

_____

_____

. Figures include reports from branch campus libraries. (See instruction 3.)

☐ Yes ☐ No

. If branch campus libraries are included, please specify which campuses:

_____

_____

. Basis of volume count is: ☐ Physical ☐ Bibliographical

. Count of current serials (question 6) includes government document serials.

☐ Yes ☐ No

. Fringe benefits are included in expenditures for salaries and wages (question 20).

☐ Yes ☐ No

. Other comments:

_____

_____

_____

_____

_____

Please return completed questionnaire to the ARL Office by October 3, 1983

FOOTNOTES TO ARL STATISTICS, 1982-83

Institution	Category from Main Table	Notes
ALABAMA		All figures are as of September 30, 1983.
ALBERTA		Excludes Extension Library, Boreal Institute Library, St. Joseph's College Library, St. Jean Library, and Map Library.
	(5)	Figure represents periodicals only.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $3,285,457; (13) $1,277,058; (14) $185,460; (15) $3,470,917; (16) $8,176,452; (17) $1,373,119; (18) $13,020,488.
	(6-22)	Figures are as of March 31, 1983.
ARIZONA	(1)	Includes government documents received through 1978.
	(12,16,17)	Includes special grant funds of $10,255 for materials, $119,551 for salaries and wages, and $10,122 for other operating expenditures.
ARIZONA STATE		Includes Law Library not included in previous reports.
BOSTON		Includes the Theology Library.
		Ph.D. count includes all doctorates other than M.D. and D.M.D. Count of Ph.D. fields based on pre-1983 NCES classification.
BRIGHAM YOUNG		Figures are as of August 31, 1983.
	(3)	Library made a concentrated effort to withdraw duplicate copies in all subject disciplines during the year.
	(12-18)	Reported, but not published.

Institution	Category from Main Table	Notes
BRITISH COLUMBIA		Figures are as of March 31, 1983.
	(1)	1981-82 figure revised because reading room collections are no longer part of the Library system.
	(19, 20, 22)	Salaries of 4.5 professionals, 25 nonprofessionals, and 5 FTE students are paid from grants.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $3,894,288; (14) $171,609; (15) $4,065,897; (16) $9,464,458; (17) $1,216,816; (18) $14,747,171.
BROWN		Includes John Carter Brown Library. Also includes Annmary Brown Library which was not included in previous years' reports.
	(18)	Includes Title II-C funding.
CISTI		All figures are as of March 31, 1983.
		Includes 14 branch libraries throughout Canada which serve the divisions of the National Research Council of Canada, CISTI's parent organization.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $6,164,560; (13) $3,526,412; (14) $25,440; (15) $6,190,000; (16) $5,384,000; (17) $3,561,000; (18) $15,135,000.
CALIF., DAVIS		Excludes Michael and Margaret B. Harrison Western Research Center Library.
CALIF., LOS ANGELES	(1)	Includes 711,200 volumes which are recently reclassified government documents not included in previous years' reports.
	(1-3)	Initial volume count in 1940s was bibliographical; subsequent counts of added volumes have been physical.
		Ph.D. count includes Ed.D. and D.S.W. degrees.

Institution	Category from Main Table	Notes
CALIF., RIVERSIDE	(12)	Includes $2,040 in grant funds.
	(16)	Includes $22,229 in federal work study funds and $545 in other grants.
	(17)	Includes $6,679 in grant funds.
CALIF., SAN DIEGO	(1)	1981-82 figure revised.
CASE WESTERN RESERVE	(1)	1981-82 figure revised.
	(1-3)	Count is physical for some libraries and bibliographical for others.
CHICAGO	(1-3)	Includes a bibliographical count of microforms.
	(22)	Includes 17 FTE staff on special grants.
COLORADO	(16)	Includes $162,552 from work study funds.
COLORADO STATE	(5)	Reduced by 163 titles from 1981-82 totals reported after title-by-title inventory of holdings.
	(16)	Includes fringe benefits.
COLUMBIA	(16)	Includes $36,854 for special projects. Excludes expenditures for fringe benefits of $1,553,692.
	(17)	Includes $31,856 for special projects.
	(19,20)	Part of 8 professional and 10 nonprofessional salaries were funded by special projects.
CORNELL		Includes Geneva Experiment Station.
	(1)	1981-82 figure revised to exclude Annex Library.
	(12)	Includes $114,797 in grant and special project expenditures.
	(16)	Includes $763,661 in work study funds.
DARTMOUTH	(1)	Includes government documents.

Institution	Category from Main Table	Notes
DARTMOUTH (cont'd)	(5)	Includes cataloged government documents.
	(19,20)	Includes 1 professional, 6.5 nonprofessionals paid from grant funds.
DUKE	(1)	1981-82 figure revised.
	(13)	Includes expenditures for monographic sets and series.
	(16)	Previous year's figure inadvertently included fringe benefits.
EMORY	(5)	Includes 906 government document serials not included in previous years' reports.
	(12-18)	Figures are as of August 31, 1983.
	(16)	Includes $68,749 in project, grant, and work study funds.
	(20,21)	Includes 2 FTE nonprofessionals and 4 FTE student assistants paid from grant funds.
FLORIDA STATE	(16)	Includes some fringe benefits.
GEORGETOWN		Excludes Center for Population Research (2,000 volumes).
	(1)	1981-82 figure revised.
	(17)	Library computer costs of $45,947 are not included as they are not charged to the Library's budget.
GEORGIA		Includes experiment stations at Griffin, Tifton, Skidaway, and Sapelo.
GEORGIA TECH	(1)	Includes some microforms.
	(18)	Figure includes $54,540 from research and grants.
GUELPH		All figures are as of April 30, 1983.

Institution	Category from Main Table	Notes
GUELPH (cont'd)	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,797,216; (13) $785,123; (14) $56,892; (15) $1,854,108; (16) $3,088,386; (17) $283,926; (18) $5,226,420.
	(17)	Includes cost of computer operations in the amount of Can. $111,000 (maintenance of minicomputer and terminals, $68,000, and charges for use of University's main computer, $43,000).
HARVARD		Includes research institutions in District of Columbia, Texas, and Italy.
	(18)	Separate figure for expenditures from grants and special projects not available. Expenditures do not include fringe benefits ($2,552,214), building and maintenance charged to library budgets ($2,561,966), cost-recovery items ($1,173,592). Total reported expenses including these items: $29,220,036.
HAWAII		Excludes Industrial Relations Library, Hawaii Institute of Geophysics Library, and School of Public Health Reference Collection, all not under university library administration.
	(12)	Includes $98,289 in federal grant funds.
HOUSTON		All figures are as of August 31, 1983.
ILLINOIS		Part-time enrollments are headcounts, not FTE.
INDIANA	(1)	1981-82 figure revised.
		Figures are reported for the Bloomington campus only. Prior to 1979-80 figures were reported in addition for the six regional campuses and the Indianapolis campuses. System-wide figures for all campuses of the University, comparable to those reported in previous years, are: (1) 5,695,649; (2) 200,200; (3)

Institution	Category from Main Table	Notes
INDIANA (cont'd)		157,471; (4) 2,443,747; (5) 47,434; (6) 16,336; (7) 30,709; (8) 47,045; (9) 14,552; (10) 17,115; (11) 31,667; (12) $5,080,711; (13) $2,617,815; (14) $279,524; (15) $5,360,235; (16) $8,436,020; (17) $997,820; (18) $14,794,075; (19) 171; (20) 296; (21) 216; (22) 683.
IOWA	(5)	Includes only those government documents received on paid subscriptions.
	(18)	Includes $49,548 in gifts and $87,152 in federal grant funds.
	(20)	Includes .5 FTE paid from grant funds.
JOHN CRERAR		Collections data include Crerar Library only. Fiscal and staff data include all services, grant and contract operations. All data represent the latest figures available and are for the period October 1, 1981 - September 30, 1982.
	(1-5)	Includes government documents.
JOHNS HOPKINS		Includes Peabody Conservatory Library, Welch Medical Library, School of Hygiene and Public Health Library, Applied Physics Laboratory Library, and School of Advanced International Studies in Washington, D.C. and Bologna, Italy.
	(1)	1981-82 figure revised.
KANSAS		Includes School of Medicine in Kansas City.
	(19-22)	Includes 5 FTE professionals, 4 FTE nonprofessionals, and 3 FTE student assistants that are grant funded positions.
		Count of Ph.D. fields includes one joint program with Kansas State, for a total of 51 fields at Lawrence campus and 10 at Medical Center in Kansas City.

Institution	Category from Main Table	Notes
KANSAS (cont'd)		Changed from 1981-82 reporting due to consolidation or transfer of programs; no Ph.D. fields were discontinued.
KENT STATE	(17)	Includes fringe benefits.
LIBRARY OF CONGRESS		All figures are as of September 30, 1983.
	(5)	Estimated figure.
LINDA HALL		All figures are as of December 31, 1982.
	(4)	1981-82 figure revised.
LOUISIANA STATE		Includes Veterinary Medicine Library.
	(1)	1981-82 figure revised. Includes bound government documents.
McGILL		All figures are as of May 31, 1983.
	(1)	1981-82 figure revised.
	(12)	Includes Can. $200,000 in special funds.
	(16)	Includes Can. $124,156 for contracted security services.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $2,288,133; (13) $1,309,090; (14) $167,343; (15) $2,455,476; (16) $6,896,462; (17) $529,300; (18) $9,881,238.
McMASTER		All figures are as of April 30, 1983.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $2,659,033; (13) $1,284,817; (14) $74,217; (15) $2,733,250; (16) $3,521,734; (17) $389,857; (18) $6,644,841.
	(19)	Includes 3 FTE paid by grant funds.
MANITOBA		All figures are as of March 31, 1983.

Institution	Category from Main Table	Notes
MANITOBA (cont'd)	(12-18)	Expenditures reported in Canadian dollars were: (12) $2,084,180; (13) $1,113,380; (14) $138,460; (15) $2,222,640; (16) $4,609,454; (17) $458,998; (18) $7,291,092.
	(12,13,16,17)	Includes grants (in Canadian dollars): (12) $46,615; (13) $2,165; (16) $47,130; (17) $14,261.
	(19,20)	Includes 2 FTE professionals and 1 FTE nonprofessional paid through grant funds.
MARYLAND		College of Library and Information Services data are included for collections and expenditures (except salaries and wages), but not for personnel.
	(1, 4)	1981-82 figures revised.
	(16, 21)	Expenditures for federal work study students are not included, but these students are included in the calculation of FTE student assistants.
MASSACHUSETTS	(5)	Includes some government documents which are cataloged separately from the Government Documents Collection.
MIAMI	(16)	Excludes Director's salary.
	(16, 20)	Includes 7 nonprofessionals hired for special project with University funds.
	(17)	Includes $323,083 in service fees which pay staff, operating, and materials expenses.
	(18)	Includes $191,526 in special project and grant funds.
MICHIGAN		Excludes Dearborn Campus Library and the University of Michigan, Flint Library.
	(1)	Includes microforms held in the Transportation Research Institute.
	(16)	Excludes Transportation Research Institute.

Institution	Category from Main Table	Notes
MICHIGAN STATE	(1)	1981-82 figure revised.
MISSOURI	(17)	Includes $56,305 of special and grant funds.
NAT. AGRIC. LIB.		U.S.D.A. field libraries not included.
		Figures are as of September 30, 1983.
NAT. LIB. OF CANADA		Figures for holdings, interlibrary loans, and expenditures are as of March 31, 1983.
	(5)	This year's figures include current serials only; last years' figure included all serials.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,868,247; (13) $407,642; (14) $15,600; (15) $1,883,847; (16) $14,433,666; (17) $9,569,112; (18) $25,886,625.
	(19-22)	Figures represent headcount (as of September 20, 1983), not FTE.
NAT. LIB. OF MED.	(12-22)	Statistics on personnel and expenditures reflect only the Library Operations component of the National Library of Medicine, namely: Reference Services Division, Bibliographic Services Division, Technical Services Division, History of Medicine Division, Medical Subject Headings Section, and the Office of the Associate Director for Library Operations.
NEBRASKA	(1)	Excludes Law Library, which was included in previous years reports.
NEWBERRY	(14)	Covers in-house bindery and associated costs. According to in-house cost accounting, the expenditure for binding is $86,913.
NEW MEXICO	(5)	Previous years' figure revised.
NEW YORK	(2)	Decrease due to a change in the method of counting at New York University's Law Library.

Institution	Category from Main Table	Notes
NEW YORK (cont'd)	(4)	Decrease reflects withdrawal of 142,610 duplicate fiche.
NEW YORK PUBLIC	(5)	Beginning in 1976, serial count comprised both serials and periodicals. Prior to 1976 only periodical titles were reported. Includes current and dead titles; no separate count kept of current cataloged titles.
	(12-18)	1982-83 expenditure figures not yet available. Figures given are for 1981-82.
NEW YORK STATE LIB.		All figures as of March 31, 1983.
NORTH CAROLINA	(19, 20, 22)	4.5 FTE professionals and 1 FTE nonprofessional funded on federal grant.
	(12)	Includes $520,163 in grants and special project funds.
	(16)	Does not include federal work study funds.
NORTH CAROLINA STATE		Includes Veterinary Medical Library.
NORTHWESTERN		Includes Dental Library.
		All figures are as of August 31, 1983.
	(12-18)	Includes project and grant funds as follows: (12) $203,277; (16) $60,323 and $222,074 of federal work study funds; (17) $56,912.
	(19-22)	Includes 3 FTE professionals, 2 FTE nonprofessionals, and 1 FTE student on special projects.
NOTRE DAME	(4)	Does not include microforms in various departmental collections.
OHIO STATE		Includes University Archives.
	(1)	1981-82 figure revised.
	(19-22)	Includes 2 FTE professionals, 2 FTE nonprofessionals, 2.5 FTE students on special grant funds.

Institution	Category from Main Table	Notes
OKLAHOMA STATE		Excludes OSU Technical Institute in Oklahoma City and OSU School of Technical Training in Okmulgee.
PENNSYLVANIA STATE		Includes main campus and branches at Allentown, Altoona, Beaver, Berks, Delaware Co., DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Ogontz, Schuylkill, Scranton, Shenango Valley, Wilkes-Barre, York, Behrend College and King of Prussia Center for Graduate Studies. Excludes Capitol Campus at Middletown, Pennsylvania.
	(17)	Includes $82,576 partial payment on computer upgrade and $165,935 of special project funds for automation program.
PITTSBURGH	(1)	Includes cataloged government documents which were not reported in 1981-82, but which had been reported in previous years.
	(12-18)	Figures include $246,195 expended from gifts, grants, and endowments.
PRINCETON	(20)	Includes 5 nonprofessionals on grant funds.
QUEEN'S		Figures are as of April 30, 1983.
		Excludes Library of the Industrial Relations Centre.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $2,124,893; (13) $1,060,234; (14) $99,855; (15) $2,224,748; (16) $3,561,688; (17) $307,731; (18) $6,094,167.
RICE	(19-22)	Includes positions funded by external grants.
ROCHESTER		Includes Sibley Music Library of Eastman School of Music.
	(5)	Count revised based on first year of using computer (CONDAT) figures.

Institution	Category from Main Table	Notes
RUTGERS		Figures include services to a non-Rutgers medical school, colleges and professional schools in Camden, Newark, and New Brunswick.
SASKATCHEWAN		Excludes Theological College libraries on campus that are not part of the library system.
	(1)	1981-82 figure revised.
	(12-18)	Figures as of April 30, 1983. Expenditures reported in Canadian dollars were: (12) $2,125,359; (13) $1,275,000; (14) $66,000; (15) $2,191,359; (16) $3,481,016; (17) $361,410; (18) $6,033,785.
SMITHSONIAN		All figures are as of September 30, 1983.
		Includes Smithsonian Astrophysical Observatory in Cambridge, Mass. and Mt. Hopkins, Ariz.; Cooper-Hewitt Museum in New York City; and Smithsonian Tropical Research Institute in Panama. Excludes Hirshhorn Museum and Sculpture Garden, Woodrow Wilson International Center for Scholars, Freer Gallery of Art, National Museum of American Art, and National Portrait Gallery.
	(1-3)	Includes microforms in volume equivalents.
SOUTH CAROLINA	(22)	Includes 4 FTE paid by grant funds.
SOUTHERN CALIF.		Includes the Andrus Gerontology Center Library and the Hancock Library of Biology and Oceanography. Does not include the Safety and Systems Management Library and Arnold Schoenberg Institute Library.
SOUTHERN ILLINOIS		Excludes Center for Dewey Studies; Papers of Ulysses S. Grant; Instructional Development, Research and Evaluation Faculty of Learning Resources Service; School of Medicine

Institution	Category from Main Table	Notes
SOUTHERN ILLINOIS (cont'd)		Library (Springfield). Includes the School of Law Library, which is not administratively part of Library Affairs.
STANFORD	(1)	1981-82 figure revis d.
	(16)	Excludes federal workstudy funds.
	(12-18)	Figures are as of August 31, 1983.
SUNY, ALBANY		Includes the Graduate Library of Public Policy (formerly Hawley Library) on East campus.
	(12)	Includes $15,258 in grant funds.
	(16)	Excludes federal work study allocations.
	(12-18)	Figures are as of March 31, 1983.
SUNY, BUFFALO		Figures are as of March 31, 1983.
	(19,20)	Includes 2 professional and 4 nonprofessional FTE on special projects/grants.
SUNY, STONY BROOK		Figures are as of March 31, 1983.
	(12-18)	Includes funds from the Income Fund Reimbursable account as follows: (12) $1,158; (16) $37,336; (17) $48,598.
	(20)	Includes 3 FTE supported through subcontract with Regional Medical Library and reimbursable funds.
SYRACUSE		Excludes Utica College.
	(16)	Includes $89,740 for Academic Computer Center staff.
	(17)	Includes Academic Computer Center computer rentals, collection insurance, CRL dues, as well as regular operating expenditures.
	(19)	Includes 3.5 FTE in Academic Computer Center.

Institution	Category from Main Table	Notes
SYRACUSE (cont'd)		Ph.D.'s awarded include all doctoral degrees.
TEMPLE		Excludes Journalism, Health, Physical Education, Recreation, and Dance Libraries and other departmental collections.
	(1)	1981-82 figure revised.
	(12)	Includes $42,925 in grant funds.
	(16)	Includes $31,750 in grant and endowment funds and $60,612 in work study funds.
	(17)	Includes $25,089 in grant and endowment funds. Figure increased from previous years due to late charges for building renovations and new accounting procedures for computer operations.
TENNESSEE	(19)	Includes 1 FTE paid from grants funds.
TEXAS		Figures are as of August 31, 1983 and include the General Libraries, Law Library, and the Humanities Research Center.
	(1)	1981-82 figure revised to include Lewis and Edie Wasserman Public Affairs Library and Richard T. Flemming University Writings Collection.
	(15)	Includes expenditures of $3,258,560 by General Libraries, $611,271 by Law Library, and $2,500,000 by Humanities Research Center.
	(16)	Includes Title II-C and federal work study funds.
	(22)	Includes staff hired on grant funds.
TEXAS A & M		All figures are as of August 31, 1983.
		Includes Medical Science Libray, which was not included in 1980-81 and 1981-82 reports.

Institution	Category from Main Table	Notes
TEXAS A&M (cont'd)	(1)	1981-82 figure revised to include Medical Science Library holdings.
TORONTO		Includes only the libraries of the university within the President's budget; excludes the libraries of the federated and affiliated institutions.
	(1)	Includes government documents, some of which are cataloged.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $5,437,783; (13) $2,401,958; (14) $230,100; (15) $5,667,883; (16) $14,405,237; (17) $1,449,503; (18) $21,522,623.
TULANE		Includes Delta Primate Center in Covington, La.
	(4)	Excludes holdings for Medical Library.
	(16)	Includes some fringe benefits.
VANDERBILT	(1)	1981-82 figure revised.
	(6-11)	Excludes Law Library.
	(17)	Includes $64,065 for video tapes not included in collections count.
VIRGINIA POLY.		Includes "open reserve" collection of approximately 10,000 volumes at Northern Virginia Graduate Center in Falls Church, Virginia.
WASHINGTON	(1)	1981-82 figure revised.
	(5)	Includes only government document serials that are cataloged.
	(19-22)	Includes 8 FTE professionals, 9.5 FTE nonprofessionals, 9 FTE students on special projects and grants.
WASHINGTON STATE	(19-22)	Includes 2 FTE professionals, 10 FTE nonprofessionals, 11 FTE students for Instructional Media Services.

Institution	Category from Main Table	Notes
WASHINGTON, ST. LOUIS	(1)	1981-82 figures revised. Includes cataloged volumes in Special Collections not previously reported.
WAYNE STATE	(15-17)	Includes project and grant funds as follows: (15) $51,961; (16) $339,804; (17) $430,740.
	(19-22)	Includes FTE staff on special projects or grants: 3 professional, 9 non-professional, 4 student assistants.
WESTERN ONTARIO		Excludes libraries of 3 affiliated colleges, School of Library and Information Science, libraries operated within single university departments.
	(1-4)	Holdings are as of April 30, 1983.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $2,773,895; (13) $1,348,884; (14) $110,711; (15) $2,884,606; (16) $5,186,921; (17) $221,780; (18) $8,293,307.
WISCONSIN	(1)	1981-82 figure revised; based on corrected count from Health Sciences Library.
	(5)	Figure revised based on new count in Engineering and Agriculture Libraries.
	(18)	Includes $286,579 of federal grant and work study funds.
	(22)	Includes 15 FTE paid by federal grant and work study funds.
		Ph.D. and enrollment figures reported for 1981-82 were incorrect.
YALE		Includes Lewis-Walpole Library in Farmington, Connecticut.
	(15)	Excludes $75,800 for preservation supplies.
	(18)	Total expenditures exclude fringe benefits, $1,735,200; utility costs, $941,200; buildings and grounds

Institution	Category from N in Table	Notes
YALE (cont'd)		maintenance, $963,500; central university assessments, $575,100; capital outlays (renovations), $917,500; new construction, $498,100. The total library expenditures were $21,718,600.
YORK		All figures are as of April 30, 1983.
		Includes Glendon campus.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $2,014,107; (13) $760,107; (14) $114,544; (15) $2,128,651; (16) $4,170,588; (17) $756,138; (18) $7,055,377. Figures are as of April 30, 1983.
	(19,20)	Includes 2 FTE professional and 1.5 FTE nonprofessional staff paid by special project grant funds.
		Statistical information on enrollments is in fiscal full-time equivalents.

ARL STATISTICAL COMPILATIONS

1. ARL Statistics.

Published annually. Formerly Academic Library Statistics; title changed with 1974-75 edition.

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b. 1919-20 to 1962-63.

Compiled by Princeton University Library and available from:

University Microfilms International
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1) 1944-45 to 1962-63. Special Film No. S-338.

Published as "Princeton University Library Statistics."

2) 1919-20 to 1943-44. AG 1-OP30634.

Originally published in 1947 under title: College and University Library Statistics.

2. Cumulated ARL University Library Statistics, 1962-63 through 1978-79. 1981.

Compiled by Kendon Stubbs and David Buxton for the Committee on ARL Statistics. Includes ARL annual statistics and salary data, plus data on university enrollments, expenditures, federal support, and Ph.D.'s awarded from non-ARL sources and not included in the printed ARL Statistics.

a. Book format. Available from the Association. Price: $15.00 (ARL members, $10.00).

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3. The ARL Library Index and Quantitative Relationships in the ARL. 1981.

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